The Next Step

Mathematics Applications for Adults
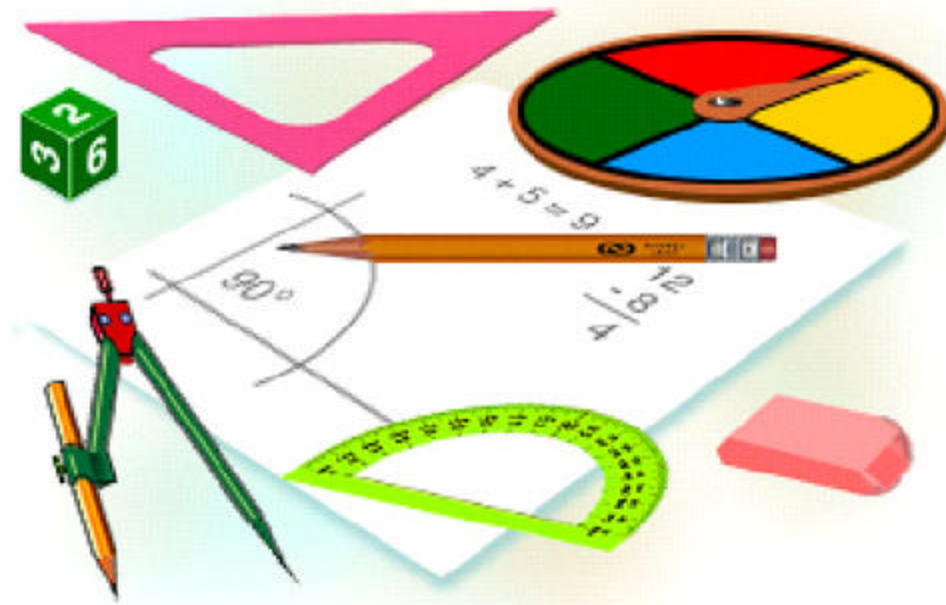
SECTION 1

Post-Tests

"The greatest thing a man can do in this world is to make the most possible out of the stuff that has been given him. This is success, and there is no other."
-*Orison Swett Marden*

OUTLINE

Mathematics – Teacher's Manual

Section 1	
Post-Tests	
Book 14011	**Book 14011 – Version 2**
Book 14012	**Book 14012 – Version 2**
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Book 14015	**Book 14015 – Version 2**
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Post-Test for Book 14011

1. How many dots are in the box?   _____

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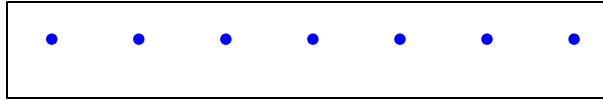
2. Write the numeral for this number: **two**

_____

3. Write the numeral for this number: **fifty-five**

_____

4. Write the number word for this numeral: **7**

_____

5. Write the number word for this numeral: **47**

_____

6. Write the numbers that are left out: **1,** ____, **3, 4,** ____, ____, **7, 8**

7. Write the numbers that are left out: **56, 57,** ____, **59,** ____, ____, **62**

8. Write the numbers that are left out: **88, 90, 92,** ____, ____, ____, **100**

9. Write the numbers that are left out: **11, 13,** ____, ____, **19,** ____, **23**

10. Write the numbers that are left out: ____, **30, 35,**
____**, 45, 50,** ____

11. Write the numbers that are left out: **10,** ____**, 30, 40,**
____**,** ____**, 70**

12. How many tens are in the number 86? _____ **tens**

13. How many ones are in the number 45? _____ **ones**

14. Which number is greatest? Circle it.   **52   24   70**

15. Which number is greatest? Circle it.   **95   97   91**

16. 4   **17.** 5   **18.** 7
   + 2   + 3   + 0

19. 9 + 7 = _____   **20.** 3 + 8 = _____

21. 9   **22.** 8   **23.** 7
   - 5   - 2   - 7

24. 2 − 1 = _____   **25.** 9 − 3 = _____

26. What time is indicated on the clock face below?

_____

27. What time is indicated on the clock face below?

_____

Post-Test for Book 14011

Version 2

1. $7 + 2 =$ _____

2.   5   **3.**   4   **4.**   7
     - 3   + 4   - 6

5. Write the numeral for this number: **forty-six**

_____

6.   8
     - 3

7. $7 - 2 =$ _____

8. Write the numeral for this number: **four**

_____

9. How many dots are in the box?   _____

[• • • • • •]

10. 6
   + 5
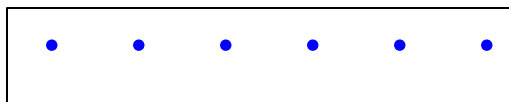
11. Which number is greatest? Circle it.   **38   42   30**

12. Write the numbers that are left out: **35,** ____, **37, 38,**
   ____, ____, **41, 42**

13. Which number is least? Circle it.   **52   24   70**

14. Write the number word for this numeral: **74**

   _____

15. $8 - 0 =$ _____

16. Write the number word for this numeral: **3**

   _____

17. $2 + 3 =$ _____

18. How many ones are in the number 54? _____ **ones**

19. Write the numbers that are left out: **74, 76, 78,** ____,
   ____, ____, **86**

20. 7
   + 1

21. How many tens are in the number 68? _____ **tens**

22. What time is indicated on the clock face below?

_____

23. Write the numbers that are left out: **19, 20, ____, 22, ____, ____, 25**

24. Write the numbers that are left out: **30, ____, 50, 60, ____, ____, 90**

25. What time is indicated on the clock face below?

_____

26. Write the numbers that are left out: **87, 89, ____, ____, 95, ____, 99**

27. Write the numbers that are left out: **____, 45, 50, ____, 60, 65, ____**

Post-Test for Book 14012

1. Write the numeral for this number word: **eleven**
_____

2. Write the numeral for this number word: **two hundred ninety** _____

3. Write the number word for this numeral: **40**
_____

4. Write the number word for this numeral: **563**
_____

5. Write the numbers that are left out: **2, 4, _____, 8, 10, _____, 14, _____, 18**

6. Write the numbers that are left out: **94, 95, _____, _____, 98, 99, _____**

7. Write the numbers that are left out: **61, _____, 65, 67, _____, _____, 73**

8. Write the numbers that are left out: **_____, 20, 30, _____, _____, 60, 70**

9. Write the numbers that are left out: **45, 50, 55, _____, _____, 70, _____**

10. Which number is the greatest? Circle it.
    226   235   262

11. Which number is the greatest? Circle it.
    881   880   878

12. How many hundreds are in 395? _____ **hundreds**

13. How many tens are in 471? _____ **tens**

14. 42 + 35 = _____   **15.** 732 + 238 = _____

16.   3   **17.**   72   **18.**   103
       2   18   462
    + 4   + 11   + 219

19. 57 - 26 = _____   **20.** 437 - 216 = _____

21.   74   **22.**   756
        - 51   - 235

23. Write >, <, or = to compare each pair of numbers
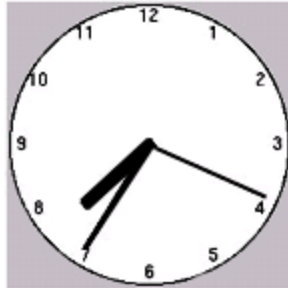   below.

          38 _____ 42   819 _____ 822

24. Write the numeral for this number word: **five dollars
    and fifty-five cents _____**

25. What time is indicated on the clock face below?

_____

26. What time is indicated on the clock face below?

_____

27. What is the temperature, in degrees Celsius, indicated on the thermometer shown below? _____

28. What is the day that comes after Wednesday?

_____

29. What is the fourth month of the year? _____

Post-Test for Book 14012

Version 2

1. 34 - 22 = _____

2. Which number is the greatest? Circle it.
   214   123   341

3. Write the numbers that are left out: **43, _____, 47, 49, _____, _____, 55**

4. What is the sixth month of the year? _____

5. Write the number word for this numeral: **635**

   _____

6. How many hundreds are in 953? _____ **hundreds**

7. Write the numbers that are left out: **55, 60, 65, _____, _____, 80, _____**

8. How many tens are in 714? _____ **tens**

9.   66
     81
   + 56

10.   Write the numeral for this number word: **twelve**

    _____

11. 47 + 42 = _____

12. What is the temperature, in degrees Celsius, indicated on the thermometer shown below? _____
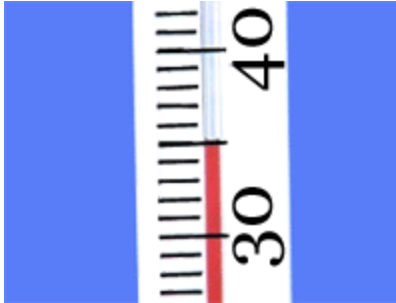
13. Write the numbers that are left out: **994, 995, _____, _____, 998, 999, _____**

14. Write the numbers that are left out: **20, 22, _____, 26, 28, _____, 32, _____, 36**

15. 603 + 285 = _____

16.   1
    5
  + 2
  _____

17. What time is indicated on the clock face below?

_____

18. Write the numbers that are left out: **15, _____, 19, 21, _____, _____, 27**

19. Write >, <, or = to compare each pair of numbers below.

    30 _____ 30   129 _____ 124

20. Write the numeral for this number word: **one hundred and ninety-two** _____

21. Write the numeral for this number word: **two dollars and forty-eight cents** _____

22. Write the number word for this numeral: **60**

    _____

23.   211
      462
  + 103

24.   69   **25.**   364
   - 35   - 263

26. What time is indicated on the clock face below?

_____

27. What is the day that comes after Tuesday?

_____

28. 751 - 401 = _____

29. Which number is the least? Circle it.
   226   235   262

Post-Test for Book 14013

1. Write the numeral for this number word: **seven hundred eighty-two** _____

2. Write the numeral for this number word: **four hundred sixteen** _____

3. Write the number word for this numeral: **697**

   _____

4. Write the number word for this numeral: **365**

   _____

5. Write the numbers that are left out: **83**, **85**, _____, **89**, **91**, _____, _____

6. Write the numbers that are left out: **649, 650,** _____, _____, **653, 654,** _____

7. Write the numbers that are left out: **65,** _____, **75, 80,** _____, _____, **95**

8. Write the numbers that are left out: _____, **30, 40,** _____, _____, **70, 80**

9. Write the numbers that are left out: **58, 60, 62,** _____, _____, **68,** _____

10. Which number is the greatest? Circle it.
622   632   626

11. Which number is the greatest? Circle it.
188   180   178

12. How many hundreds are in 302? _____ **hundreds**

13. How many tens are in 842? _____ **tens**

14. 325 + 142 = _____   **15.** 38 + 45 = _____

16.   201   **17.**   489   **18.**   4301
    + 614   + 313   +2174

19. 68 - 42 = _____   **20.** 427 - 192 = _____

21.   895   **22.**   5030
         - 453   - 1753

23. Write >, <, or = to compare each pair of numbers below.

834 _____ 843   198 _____ 128

24. What number does each of the following Roman numerals represent?

XXXVI _____   XV _____   IX _____

25. Write a Roman numeral for each of the following numbers.

19 _____   37 _____   22 _____

26. 6 x 7 = _____   **27.** 9 x 1 = _____

28.   10   **29.**   12
         x 2   x 5

30. 48 ÷ 4 = _____   **31.** 140 ÷ 10 = _____

**32.** 36 ÷ 12 = _____   **33.** 72 ÷ 1 = _____

34. The Wilsons want to buy a used car. They have $1200. The car they like costs $2495. How much more money do they need? _____

35. A basketball team scored 38 points in the first half. They scored 41 points in the second half. How many points did they score altogether? _____

36. Charlene's soccer team played six games. They made four goals in each game. How many goals did they make altogether? _____

37. Joe works in a factory. He puts pens in boxes. Each box has 144 pens. Each box has eight rows. How many pens are there in each row? _____

38. Tim earns $230 a week. Every week, $49 in taxes and $6 in union dues are taken out of his paycheck. How much money does he actually take home each week? _____
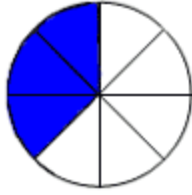
39. Which number is the numerator of the fraction ¾? _____

Write the fraction that tells what part of each circle is shaded.

40.

_____
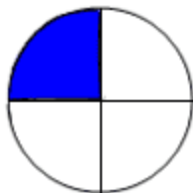
41.

_____

42. What time is indicated on the clock face below?

_____

43. How much change, in dollars and cents, would you receive from $20 if your purchase is $8.08?

_____

44. Eight grapefruit cost 10 cents each. Twelve apples cost 9 cents each. Ten pears cost 11 cents each. If you give the cashier $5.00 to pay for all of these items, how much change will you receive? _____

45. 250 cm = _____ m   **46.** 4.3 kg = _____ g

47. _____ ml = 1.6 L

48. Carla goes to an auto supply store. She finds an air filter for $3.98. She finds a can of oil for $.93. She finds a fan belt for $6.50. How much will the items cost altogether? _____

49. After her wisdom teeth were removed, Ann had to take a painkiller every four hours. If she took her first pill at 2:30 p.m., at what time will she take her fourth pill? _____

50. Terry used 12 centimeters of copper wire in each appliance he repaired. If he fixed eight appliances, how many meters of copper wire did he use?

_____

51. When Hank got up in the morning, it was 10 degrees Celsius outside. When he went to lunch in the afternoon, the temperature had risen by 35 degrees. What was the temperature at lunchtime? _____

Post-Test for Book 14013

Version 2

1. Write the numbers that are left out: **496, 497, _____, _____, 500, 501, _____**

2. Tom planned to spend $35 at The Man's Store. After buying a shirt for $15 and a tie for $10, how much did Tom have left to spend? _____

3. What time is indicated on the clock face below?

_____

4. 577 + 321 = _____

5. 10   **6.**   2040
   x11   -463

7. Three candy bars cost $1.00 each. Two ice cream
   cones cost 65 cents each. If you give the cashier $5.00
   to pay for all of these items, how much change will
   you receive? _____

8.   652
   + 478

9. When Joe went to bed at night, it was 3 degrees
   Celsius outside. When he got up for breakfast in the
   morning, the temperature had risen by 8 degrees.
   What was the temperature at breakfast time?

   _____

10. 371 - 269 = _____

11. Write the number word for this numeral: **536**

_____

12. 27 ÷ 1 = _____

13. Write the numeral for this number word: **six hundred fourteen** _____

14. 33 ÷ 11 = _____

15. Write the numbers that are left out: _____, **20, 30,** _____, _____, **60, 70**

16. How many hundreds are in 263? _____ **hundreds**

17.   458
       + 201
       _____

18. 38 - 31 = _____

19. The distance from Saint John to Fredericton is 103 kilometers, while the distance from Fredericton to Edmundston is 275 kilometers. Driving through Fredericton, how far is Edmundston from Saint John?

_____

20. 8 x 4 = _____

21. Write the numbers that are left out: **84, 86, 88,** _____, _____, **94,** _____

22. How much change, in dollars and cents, would you receive from $20 if your purchase is $18.45?

_____

23. Since there are 12 inches in one foot, how many feet long is a 144-inch driveway? _____

24. How many tens are in 284? _____ **tens**

25. Write the numbers that are left out: **55, _____, 65, 70, _____, _____, 85**

26. Which number is the numerator of the fraction ?

_____

27. What number does each of the following Roman numerals represent?

XXIV _____ XXXVIII _____ II _____

28. Write the number word for this numeral: **976**

_____

29. Airplane fares for people flying between Halifax and Toronto and staying seven to thirty days were reduced from $152 to $106. How much is saved by buying this type of ticket? _____

30. Which number is the least? Circle it.
622   632   626

31. Which number is the greatest? Circle it.
881   801   871

32. Terry has three lengths of wire: 75 cm, 126 cm, and 460 cm. What is the total length in meters of the wire? _____

33. Write >, <, or = to compare each pair of numbers below.

438 _____ 483   981 _____ 821

34. On a clock, how many minutes does it take the minute hand to move from the 4 to the 5? _____

35. 8.6 g = _____ mg

36. Write the numeral for this number word: **two hundred eighty-seven** _____

37. On Debbie's last phone bill, there was a monthly service charge of $8.27, long distance calls for $15.93, and tax for $2.10. What was her total phone bill?
_____

38. 1 x 11 = _____

Write the fraction that tells what part of the circle is shaded.

39.

_____

40.   523
         - 321
         _____

Write the fraction that tells what part of the circle is shaded.

41.

_____

42. The average family in the Rose Apartment Complex has 4 members. If there are 12 families on a floor, how many people live on each floor? _____

43. _____ cl = 6.1 L

44. $120 \div 10 =$ _____   **45.** $57 + 83 =$ _____

46. Write the numbers that are left out: **73, 75, _____, 79, 81, _____, _____**

47. 250 m = _____ **cm**   **48.** $27 \div 9 =$ _____

49. Write a Roman numeral for each of the following numbers.

39 _____ 27 _____ 12 _____

50. 12   **51.**   4825
   x 7   +3054

Post-Test for Book 14014

1. Write the numeral for this number word: **one thousand, four hundred sixteen**

   _____

2. Write the numeral for this number word: **six hundred and four** _____

3. Write the number word for this numeral: **1893**

   _____

4. Write the number word for this numeral: **563**

   _____

5. Write the numbers that are left out: **6783, 6784, _____, 6786, 6788, _____, _____**

6. Write the numbers that are left out: **890649, 890650, _____, _____, 890653, 890654, _____**

7. Write the numbers that are left out: **25, _____, 35, 40, _____, _____, 55**

8. Write the numbers that are left out: _____, **40, 50,** _____, _____, **80, 90**

9. Write the numbers that are left out: **88, 90, 92,** _____, _____, **98,** _____

10. Write the numbers that are left out: **65, 67, 69, 71,** _____, _____, _____

11. Which number is the greatest? Circle it.
   2486   2468   2846

12. Which number is the greatest? Circle it.
   853084   853184   835084

13. How many hundred thousands are in 1692304?
   _____ **hundred thousands**

14. How many ones are in 376842? _____ **ones**

15. 121 + 253 = _____   16. 299 + 343 = _____

17.   4825   18.   51937   19.   210976
    + 2164   + 35042   +384012

20. 712 - 356 = _____   21. 7002 - 2567 = _____

22.   20030   23.   406000
    - 4038   - 209513

24. Write >, <, or = to compare each pair of numbers below.

345777 _____ 345877   6203 _____ 6230

25. What number does each of the following Roman numerals represent?

XXVI _____ V _____ XIX _____

26. Write a Roman numeral for each of the following numbers.

26 _____ 15 _____ 38 _____

27. 23 x 1 = _____   **28.** 57 x 13 = _____

29.   257   **30.**   126   **31.**   864
        x 10   x 100   x 46

32. 715 ÷ 18 = _____   **33.** 130 ÷ 10 = _____

34. 803 ÷ 4 = _____   **35.** 768 ÷ 1 = _____

36. 435 ÷ 100 = _____

37. Jack gained five pounds in May. He gained four pounds in June. He gained seven pounds in July. What is the sum of the pounds he gained?

_____

38. Jerry is 18 years old. His father is 49 years old. What is the difference in their ages? _____

39. There are 30 National Hockey League teams. Each team has 20 players on their active rosters. How many players are there altogether in the league? _____

40. A person is driving 80 kilometers an hour. How many hours will it take to drive 240 kilometers? _____

41. After starting the day with $41, Mike spent $3 for lunch and $22 for gas. How much money did he have left by the end of the day? _____

42. Which number is the denominator of the fraction ¾? _____

43. Make the equivalent fraction: $\dfrac{1}{4} = \dfrac{?}{16}$ _____

44. Write the fraction that tells what part of this circle is shaded.

_____
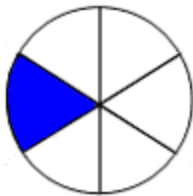
45. Which is greater, 1/5 or 3/5? _____

46. What time is indicated on the clock face below?

_____

47. How much change, in dollars and cents, would you receive from $20 if your purchase is $17.94?

_____

48. Three candy bars cost 25 cents each. Two ice cream cones cost 65 cents each. If you give the cashier $5.00 to pay for all of these items, how much change will you receive? _____

49. 3.25 m = _____ cm   **50.** 3500 mg = _____ g

51. _____ ml = 2.4 L

52. Sally wants to buy a pants suit that costs $48.00. She has saved $36.14. How much more money does she need to save? _____

53. Connie's dog sleeps 12 hours a day. How many minutes does Connie's dog sleep each day?

_____

54. There are 6 grams of fat in a blueberry muffin. If Jenny ate 2 muffins each morning for four days in a row, how many grams of fat did she eat?

_____

55. Randy's daughter had a fever. The thermometer said 41 degrees Celsius. How many degrees above 37 degrees Celsius was the child's fever? _____

56. Solve each equation below.

$a + 5 = 11$ _____

$z - 8 = 23$ _____

57. _____ hr = 240 min

58. 3 days = _____ hr

59. 180 sec = _____ min

60. Express the date below with numeric dating using y/m/d.

April 18, 2002 _____

61. Which is the better buy: 10 oranges for 85 cents or 12 oranges for 99 cents? _____

62. Find the perimeter of a 7-inch square. _____

63. What is the perimeter of a rectangular flowerbed 21 feet wide and 28 feet long? _____

Post-Test for Book 14014

Version 2

1. Write the numbers that are left out: **7836, 7837,** _____, **7839, 7840,** _____, _____

2. 71 x 1 = _____

3. Which number is the greatest? Circle it.
 530848   531848   350848

4. 1 min = _____ sec

5. Express the date below with numeric dating using y/m/d.

 June 13, 2002 _____

6. Doris saved $936 in one year. What was the average amount she saved each week? _____

7. 256 ÷ 100 = _____   **8.** 308 ÷ 5 = _____

9. Write the numeral for this number word: **one thousand, six hundred four** _____

10. Write the numeral for this number word: **four hundred and sixteen** _____

11. $368 \div 10 =$ _____

12. How many ones are in 768423? _____ **ones**

13. Write the numbers that are left out: **57, 59, 61, 63,**

_____, _____, _____

14. 721 - 563 = _____

15. Write the numbers that are left out: _____, **20, 30,**

_____, _____, **60, 70**

16. $687 \div 1 =$ _____

17. Kim baked cookies for her daughter's second-grade class. From the 93 cookies she baked, she kept 24 home for her family. She took the rest to school. If there are 23 children in the class, how many cookies will each child get? _____

18. Make the equivalent fraction: $\frac{4}{5} = \frac{?}{30}$ _____

19. 992 + 433 = _____

20. 8254
  + 1642

21. 19375
  + 50423

22. 2.53 km = _____ m   **23.** 211 + 532 = _____

24. Write the numbers that are left out: **32, 34, 36, _____,
_____, 42, _____**

25.   30020   **26.**   261
        - 3084   x 100

27. How many hundred thousands are in 6923041?
        _____ **hundred thousands**

28. Write the numbers that are left out: **55, _____, 65, 70,
_____, _____, 85**

29. 75 x 31 = _____

30. Which is greater, ¼ or ¾? _____

31. Write >, <, or = to compare each pair of numbers
    below.

        457773 _____ 458773   2036 _____ 2306

32. 5006 - 2727 = _____

33.   648
        x 64

34. 5300 g = _____ kg

35. Write the numbers that are left out: **906498, 906499,**
   _____, _____, 906502, 906503, _____

36. 1 day = _____ hrs

37. Find the perimeter of a 5 centimeter square.

   _____

38. A group of friends wants to start a business. Mr. Rose
   puts in $7680; Mr. Fox puts in $4275; and Mr.
   Murphy puts in $8923. What is their total investment?

   _____

39. _____ hr = 360 min

40. Write the number word for this numeral: **635**

   _____

41. Green Industries makes lamps. Each finished lamp has
   a mass of 1200 grams. An order of 14 lamps is
   shipped. What is the total mass in kilograms of the
   shipment? _____

42. $157 \div 81 =$ _____

43. Write a Roman numeral for each of the following
   numbers.

   16 _____   35 _____   28 _____

44. What time is indicated on the clock face below?

_____

45. This morning, it was 11 degrees Celsius when Homer got up. At lunchtime, the temperature was up to 23 degrees Celsius. How many degrees had the temperature risen by lunchtime? _____

46. 572
x 10

47. Write the number word for this numeral: **1938**

_____

48. Which is the better buy: 5 lb of grass seed for $6 or 25 lb of grass seed for $27? _____

49. In Fredericton, the average annual income for a family with two people working is $30,474. For families in which only one person is working, it is $22, 836. How much more do families with two people working make? _____

50. What is the perimeter of a rectangular garden 12 meters wide and 36 meters long? _____

51. If a car averages a speed of 93 kilometers per hour, how far can it go in 4 hours? _____

52. 24 liters of gasoline cost 71 cents a liter. 1 liter of oil cost $2.29. If you give the cashier $20.00 to pay for these items, how much change will you receive?

_____

53.   109762

 +840123

54.   604000

 - 590132

55. Terry has to be at work for 8 hours each weekday, Monday to Friday. How many minutes does he spend at work each week? _____

56. _____ L = 4.2 kl

57. Solve each equation below.

$a + 7 = 13$ _____

$z - 6 = 21$ _____

58. Which number is the denominator of the fraction   ?

_____

59. Write the fraction that tells what part of this circle is shaded.

_____

60. What number does each of the following Roman numerals represent?

VI _____   XXV _____   XXXIX _____

61. How much change, in dollars and cents, would you receive from $20 if your purchase is $18.52?
_____

62. Which number is the least? Circle it.
4862   4682   8462

63. A pair of boots on sale was marked down from $30 to $21.95. How much is saved by buying the boots on sale? _____

Post-Test for Book 14015

1. Write the numeral for this number word: **four thousand, eight hundred ninety-three**
_____

2. Write the numeral for this number word: **one million, sixteen thousand, seven hundred eighty-two**
_____

3. Write the number word for this numeral: **1,605,839**
_____

4. Write the number word for this numeral: **4,203**

_____

5. Write the numbers that are left out: **998**, **999**, _____, **1001**, **1002**, _____, _____

6. Write the numbers that are left out: **946012, 946013,** _____, _____, **946016, 946017,** _____

7. Write the numbers that are left out: **5,** _____, **15, 20,** _____, _____, **35**

8. Write the numbers that are left out: **30,** _____, _____, **60, 70,** _____, _____

9. Write the numbers that are left out: **66, 68, 70,** _____, _____, **76,** _____

10. Write the numbers that are left out: **83, 85, 87, 89,** _____, _____, _____

11. Which number is the greatest? Circle it.
   6842   6824   6482

12. Which number is the least? Circle it.
   480358   480385   438058

13. How many hundred thousands are in 4532961?
   _____ **hundred thousands**

14. How many hundreds are in 248376? _____
hundreds

15. 5324 + 2145 = _____

16. 23864 + 51133 = _____

17. 348065   **18.** 568725   **19.** 813240
    + 251822   + 635497   +765149

20. 894328 - 59069 = _____

21. 348214 - 198247 = _____

22.   60080   **23.** 700005
    - 4236   - 380286

24. Write >, <, or = to compare each pair of numbers below.

        777543 _____ 778543   302 _____ 203

25. What number does each of the following Roman numerals represent?

    DCCXLVIII _____ CLXV _____ M _____

26. Write a Roman numeral for each of the following numbers.

287 _____ 847 _____ 699 _____

27. 10 x 6 = _____ **28.** 457 x 1 = _____

29. 85   **30.** 97   **31.** 100
   x 49   x 56   x 423

32. 522 ÷ 9 = _____ **33.** 496 ÷ 62 = _____

34. 342 ÷ 73 = _____ **35.** 352 ÷ 48 = _____

36. 632 ÷ 179 = _____

37. In 1979, Better Book Company sold 826 books. In 1980, it sold 921 books. In 1981, it sold 798 books. What is the total number of books sold in these three years? _____

38. On Monday, 122 people came to the Civic Centre. On Tuesday, 157 people came. What was the increase on Tuesday? _____

39. There were 12 people picking beans. Each person picked 25 baskets of beans. How many baskets of beans were picked altogether? _____

40. Dave Jones makes $7680 a year. He gets paid by the month. How much does he make each month?

_____

41. Kelly bought five $12 blouses and one sixteen dollar skirt. How much money did she spend on these clothes? _____

42. Change 7/3 into a mixed number. _____

43. Make the equivalent fraction: $\dfrac{3}{5} = \dfrac{?}{15}$ _____

44. Change 1 7/8 into an improper fraction. _____

45. Which is greater: 7/8, 4/5, or 2/3? _____

46. Reduce 12/15 to its lowest terms. _____

47. Find the least common denominator (lowest common multiple) for 3/5, 2/3, and 4/9. _____

48. What time is indicated on the clock face below?

_____

49. 4.7 cm = _____ mm   **50.** 1 g = _____ mg

51. 2.4 kl = _____ L

52. Lee bought some parts for his car. They cost $53.75. He gave the clerk $60.00. How much change did he get? _____

53. Larry is studying for the GED writing test. He will have 120 minutes to finish the test. How many hours will Larry have to work on the test? _____

54. A sign at the amusement park said a person must be taller than 132 centimeters to go on the ride. Jessica is 1.22 meters tall. Can she go on the ride?

_____

55. David had a fever and a cold. His temperature in the morning was 45 degrees. His temperature at night was 40.5 degrees. What was the decrease in David's temperature? _____

56. Solve each equation below.

$b + 7 = 13$ _____
$y - 5 = 10$ _____

57. 360 min = _____ hr

58. 287 days = _____ wk

59. 1 yr = _____ days

60. Express the date below with numeric dating using y/m/d.

September 17, 1997 _____

61. Which is the better buy: 6 pears for 59 cents or 3 pears for 35 cents? _____

62. Find the perimeter of the triangle below.

11 cm   25 cm   32 cm

_____
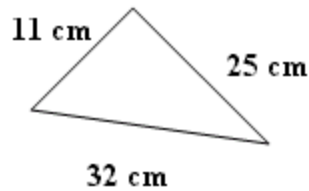
63. Find the area of a rectangle that is 6 feet wide and 12 feet long. _____

64. Find the volume of a cube that has 2 meter sides.

_____

65. Circle the prime numbers in the list below.
14   23   79   51   85   97

66. Factor each of the following numbers as a product of prime numbers.

20 _____

48 _____

67. Use "<" or ">" to compare the following pairs.

.04 _____ .008   .0057 _____ .006

68. Arrange the following lists in order from the least to the greatest.

.03   .33   .033   .303

_____

2.082   22.28   2.8   22.08

_____

69. Arrange the following lists in order from the greatest to the least.

.2   .06   .0602   .026

_____

5.2   55.06   55.0602   5.026

_____

70. Change 1/5 into a decimal. _____

71. .47 + 9.8 = _____   **72.** 83.007 + 124.9 = _____

73. 6.031 - .9 = _____   **74.** 3.046 - .06 = _____

75. 7.01 x .02 = _____   **76.** 3.25 x .4 = _____

77. .0035 ÷ 5 = _____   **78.** 14.8 ÷ 4 = _____

79. The Woodstock High School Theater Company gave a show. The costumes cost $153.50. The stage sets cost $200. The company sold $625 worth of tickets. They

sold $75 worth of program ads. What was the company's profit for the show? _____

80. Find the cost of 4.8 kilograms of tomatoes at $.75 a kilogram. _____

81. Together, the four members of the Ross family weigh 508.8 pounds. What is the average weight of each of them? _____

82. Given the graph below, answer the questions that follow.

Enrollment in Introductory Courses at Union University
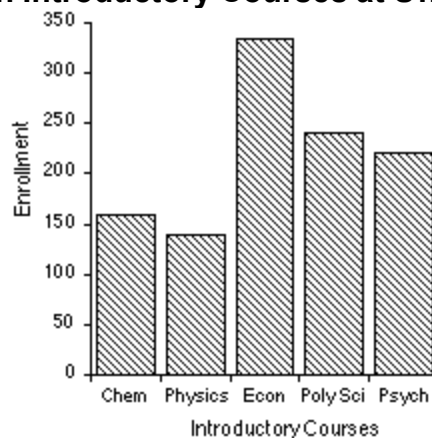
Which course has the most students enrolled in it?

_____

Approximately how many more students are there in Econ than in Physics? _____

83. This picture graph shows the number of animals in a zoo.
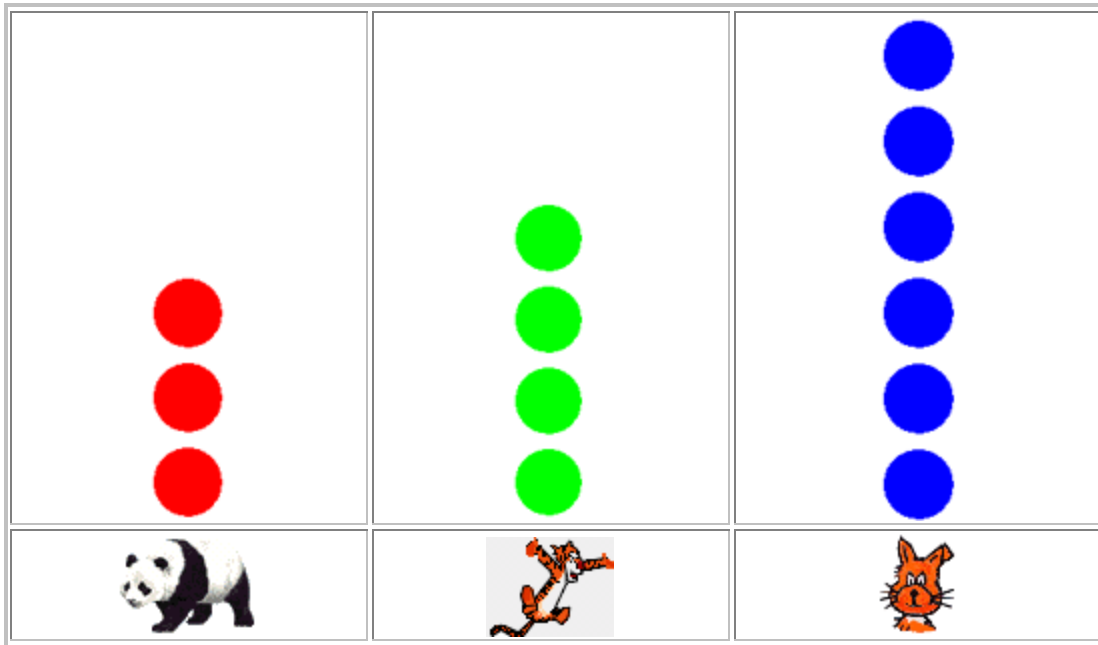
How many pandas are there? _____

How many rabbits are there? _____

How many animals are there altogether? _____

How many more rabbits are there than tigers?

_____

84. The following line graph depicts sales for two real estate agents during the years 1990 - 1995.
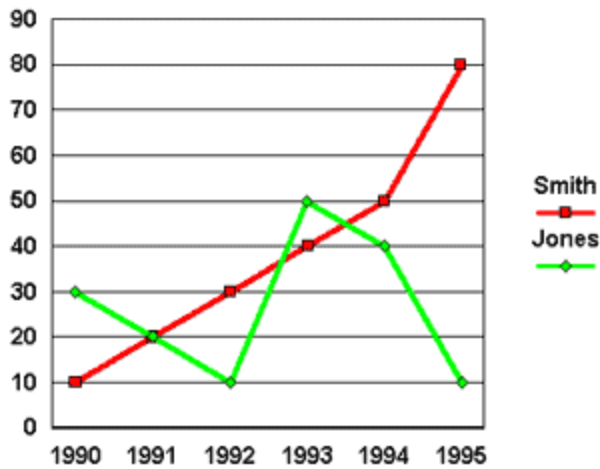
Find the following:

Find the number of houses sold by Ms. Smith in 1993.
_____

Find the number of houses sold by Ms. Smith and Mr. Jones in 1992. _____

In what year did Ms. Smith and Mr. Jones sell the same number of houses? _____

Post-Test for Book 14015

Version 2
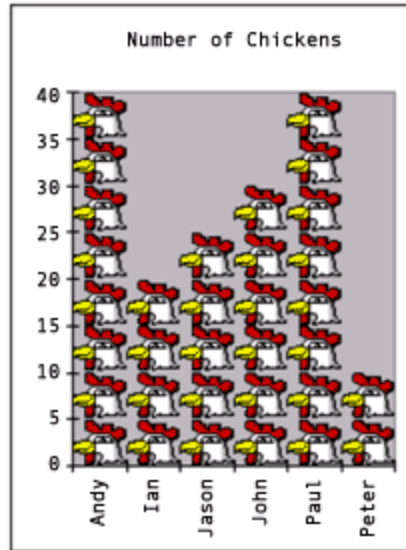
How many chickens does Peter have on his farm?

_____

_____

2. Find the perimeter of the triangle below.

12 cm

25 cm

30 cm

_____
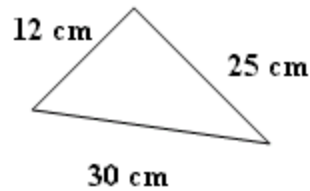
3. Express the date below with numeric dating using y/m/d.

July 2, 1994 _____

4. Last month Tammy paid $137 to heat her home. This month she paid $124. What was the total cost of heating Tammy's home for the 2 months?

_____

5. 7.4 m = _____ cm

6. Arrange the following lists in order from the greatest to the least.

.6   .02   .602   .26

_____

2.5   50.065   50.605   2.065

_____

7. 1 kg = _____ g

8. Factor each of the following numbers as a product of prime numbers.

62 _____

84 _____

9. Circle the prime numbers in the list below.

41   32   59   15   86   79

10. Write the numbers that are left out: **460129, 460130, _____, _____, 460133, 460134, _____**

11. Walter spends 3 weeks in Vancouver. How many days is that? _____

12. Joe bought 5 new tires for $298.25. What was the cost of 1 tire? _____

13.   800003
       - 208675

14. Which is the better buy: 5 pears for 49 cents or 2 pears for 25 cents? _____

Average Maximum Temperatures in Fredericton, New Brunswick
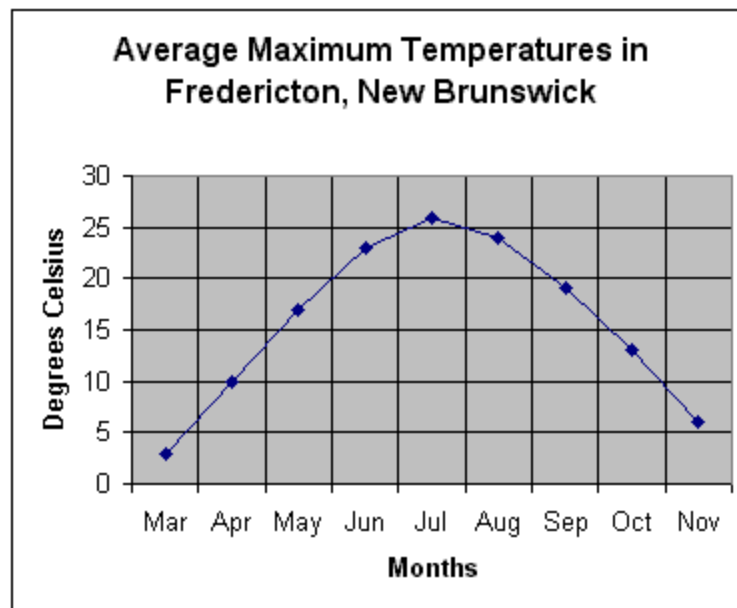
Find the following:

In what month was the highest average temperature recorded? _____

In which two-month period did the average temperature rise the least? _____

In which month did the average temperature first reach 10 degrees? _____

16. What time is indicated on the clock face below?

_____
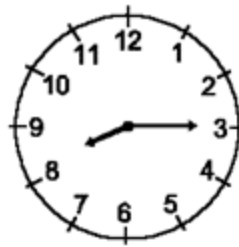
17. Find the volume of a cube that has 7 centimeter sides.

_____

18. The Roses pay $438 a month for their car loan. How much will they spend on the car loan in a 12-month period? _____

19. 3245 + 1452 = _____   **20.** 72 hours = _____ days

21. Write the numbers that are left out: **989, 990** _____, **992, 993,** _____, _____

22. 326 ÷ 197 = _____   **23.** .0054 ÷ 9 = _____

24. Write the numbers that are left out: **15, _____, 25, 30, _____, _____, 45**

25. Kim is reviewing a 348-page book for a test. The test will be in 6 weeks. How many pages should Kim review each week? _____

26. Wanda has $35. She buys a blouse for $12.98, a belt for $10.67, and a poster for $5.98. How much does Wanda have left? _____

27. $48.2 \div 2 =$ _____ **28.** $30.078 + 249.1 =$ _____

29. The distance between two points on a map is 23 centimeters. Fred is working with a computer program that requires all map distances to be entered in millimeters. How many millimeters are in 23 centimeters?   _____

30. Find the least common denominator (lowest common multiple) for 7/8, 2/3, and 1/6. _____

31. Which number is the least? Circle it.
   358480   385480   380584

32. $4 \times 10 =$ _____ **33.** $4.2 \, L =$ _____ ml

34. Solve each equation below.

   $b + 5 = 15$ _____

$y - 3 = 12$ _____

35. Reduce 5/10 to its lowest terms. _____

36. Change 4/3 into a mixed number. _____

37. What number does each of the following Roman numerals represent?

CCCXLVIII _____ LXV _____ D _____

38. $864 \div 54 =$ _____ **39.** $2.53 \times .6 =$ _____

40. 600 min = _____ hr

41. 480653
+ 518222

42. $38642 + 11335 =$ _____

43. Write the numeral for this number word: **one million, two thousand, eight hundred seventy**

_____

44. 100
x 234

45. Write >, <, or = to compare each pair of numbers below.

775437 _____ 785437   608 _____ 806

46. Use "<" or ">" to compare the following pairs.

.4 _____ .08   .057 _____ .06

47. Which is greater: 7/8, 1/3, or 1/9? _____

48. Given the graph below, answer the questions that

SALES FOR FIRST SIX MONTHS, 1996

In which two months were the sales the lowest?
_____

The average monthly sales for the time period shown on the graph were $40 million. Which month's sales were closest to the average? _____

49. 79
      x 65

50. 1.07 x .21 = _____

51. How far did Mary travel if she drove for 6.75 hours at an average speed of 84.26 kilometers per hour?

_____

52. $423 \div 37 =$ _____

53.
```
  132408
+ 651491
```

54. Make the equivalent fraction: $\dfrac{2}{5} = \dfrac{?}{10}$ _____

55. Fern and Jay Orser are buying a new refrigerator. They must make eight payments of $115 each and one final payment of $162. How much will the Orsers spend to buy the refrigerator? _____

56. Write the numeral for this number word: **three thousand, nine hundred eighty-four**

_____

57. Write the number word for this numeral: **1,508,396**

_____

58. $4.063 - .08 =$ _____

59. Which number is the greatest? Circle it.
8426   8246   4826

60. Write the number word for this numeral: **2,304**

_____

61. 482143 - 247198 = _____

62.   58
    x 94

63. At the start of an experiment, the temperature of a liquid is 4 degrees Celsius. In one minute, the temperature rises by 3 degrees. What is the new temperature? _____

64. 3.016 - .7 = _____   **65.** 943288 - 90695 = _____

66. Change 2/5 into a decimal. _____

67. Mark has $827 in his chequing account. He writes a cheque for $189. How much will be left in the account? _____

68. Write the numbers that are left out: **39, 41, 43, 45,**

_____, _____, _____

69. Find the area of a rectangle that is 25 meters wide and 36 meters long. _____

70.   80600   **71.**   687255
       - 2364   + 518222

72. How many hundreds are in 483762? _____ **hundreds**

73. .74 + 8.9 = _____

74. Write the numbers that are left out: **40, _____, _____, 70, 80, _____, _____**

75. 523 ÷ 84 = _____   **76.** 225 ÷ 9 = _____

77. Write a Roman numeral for each of the following numbers.

872 _____   478 _____   996 _____

78. How many hundred thousands are in 5329614? _____ **hundred thousands**

79. Arrange the following lists in order from the least to the greatest.

.3   .33   .333   .323

_____

8.022   22.82   8.2   28.02

_____

80. 308 days = _____ wk

81. Write the numbers that are left out: **76, 78, 80, _____, _____, 86, _____**

82. Charles has $213 in a chequing account. If he writes a cheque for $36.68, how much will be left in the account? _____

83. 574 x 1 = _____

84. Change 1 1/3 into an improper fraction. _____

Post-Test for Book 14016

1. Write the numeral for this number word: **ninety-three thousand, six hundred and eight**

   _____

2. Write the numeral for this number word: **one million, eight hundred and two thousand, five hundred and forty-nine** _____

3. Write the number word for this numeral: **1,938,506**

   _____

4. Write the number word for this numeral: **302,491**

   _____

5. Write the numbers that are left out: **2001**, **2002**, _____, **2004**, **2005**, _____, _____

6. Write the numbers that are left out: **310649, 310650,** _____, _____, **310653, 310654,** _____

7. Write the numbers that are left out: **15, _____, 25, 30, _____, _____, 45**

8. Write the numbers that are left out: **20, _____, _____, 50, 60, _____, _____**

9. Write the numbers that are left out: **88, 90, 92, _____, _____, 98, _____**

10. Write the numbers that are left out: **59, 61, 63, 65, _____, _____, _____**

11. Which number is the greatest? Circle it.
 4286   4386   4186

12. Which number is the least? Circle it.
 853084   867493   852934

13. How many ten thousands are in 932456? _____ **ten thousands**

14. How many tens are in 374592? _____ **tens**

15. $52 + 3497 + 8 + 21046 = $ _____

16. $8126 + 75634 + 29 = $ _____

17.   51937
 + 35042

18.   210976
 + 384012

19.   59146
 28759
 + 61238

20. $485311 - 296347 = $ _____

21. 50007 - 29058 = _____

22.   10000   **23.**   207000
       - 7049   - 108354

24. Write >, <, or = to compare each pair of numbers below.

   4830 _____ 4308   569320 _____ 593260

25. What number does each of the following Roman numerals represent?

   CLXV ____   MDCCCXLVII _____   DCXCIX _____

26. Write a Roman numeral for each of the following numbers.

   1492 _____   776 _____   215 _____

27. 47 x 100 = _____   **28.** 87 x 46 = _____

29.   84   **30.**   10   **31.**   723
        x 37   x 236   x   1

32. 432 ÷ 48 = _____   **33.** 131 ÷ 29 = _____

34. 331 ÷ 62 = _____   **35.** 371 ÷ 135 = _____

36. $268 \div 4 = $ _____

37. Bert Martin climbed 2,462 feet up Red Mountain. He also climbed 3,411 feet up Mount Pleasant. How many feet did he climb in all? _____

38. Before the Walker family went on vacation, their odometer (mileage dial) had a reading of 34,925 kilometers. When they returned, it read 36,059 kilometers. How far did they drive on their vacation? _____

39. The Community Academic Service Program had a 15-day sign-up period. Each day, 25 students signed up for classes. How many students signed up in all? _____

40. Ed jogs 6 miles an hour. He jogged 36 miles last week. How many hours did he jog? _____

41. Martha borrowed $4,600 to buy a new car. She will have to pay $728 interest. She plans to pay back the loan plus the interest in 24 equal monthly payments. How much will her monthly payments be? _____

42. Change 24/10 into a mixed number. _____

43. Make the equivalent fraction: $\dfrac{4}{5} = \dfrac{?}{30}$ _____

44. Change 5 3/7 into an improper fraction. _____

45. A wooden crate weighing 2 5/16 pounds contains grapefruit weighing 24 ½ pounds. What is the combined weight of the crate and the grapefruit?

_____

46. Reduce 28/42 to its lowest terms. _____

47. Find the least common denominator (lowest common multiple) for 5/6, 2/3, and 3/4. _____

48. What time is indicated on the clock face below?

_____

49. 18800 cm = _____ km   **50.** 2 kg = _____ g

51. 4 L = _____ ml

52. Linda makes $12 a day. She worked 6 days. How much money did she earn in all? _____

53. Jerry has to be in school for 8 hours each weekday (Monday to Friday). How many minutes does he spend in school each week? _____

54. Matt measured a board and found it was 30.6 centimeters wide. How many millimeters is that?

_____

55. A weather report says that the morning temperature is 4.4 degrees Celsius and that the temperature will rise 8 degrees during the day. What is the temperature expected at the end of the day? _____

56. Solve each equation below.

$c + 6 = 9$ _____

$x - 4 = 6$ _____

57. 120 hr = _____ sec

58. 72 days = _____ hr

59. 1440 min = _____ hr

60. Express the date below with numeric dating using y/m/d.

July 2, 1994 _____

61. Which is the better buy: 10 oranges for 85 cents or 12 oranges for 99 cents? _____

62. Find the perimeter of a rectangle that is 8 cm long and 6 cm wide. _____

63. Find the area of a triangle that has a 4 inch base and is 5 inches high. _____

64. Carla's boss asked her for the volume of a packing box that is 18 inches by 12 inches by 15 inches. What is the volume of the box? _____

65. Circle the prime numbers in the list below.

81   18   2   91   53   39

66. Factor each of the following numbers as a product of prime numbers.

64   _____

80   _____

67. Use "<" or ">" to compare the following pairs.

.9 _____ .99   .4 _____ .0444

68. Arrange the following lists in order from the least to the greatest.

.106   .16   .061   .6

_____

4.017   44.2   4.02   44.007

_____

69. Arrange the following list in order from the greatest to the least.

.4   .405   .45   .045

_____

3.04   33.304   33.32   3.4

_____

70. Change 3/10 into a decimal. _____

71. $2.46 + .005 =$ _____   **72.** $.8 + .047 =$ _____

73. $9.6 - .457 =$ _____   **74.** $12 - .37 =$ _____

75. $2.07 \times 5.3 =$ _____   **76.** $4.92 \times 10 =$ _____

77. $.038 \times 100 =$ _____   **78.** $1000 \times .05 =$ _____

79. $23.36 \div 3.2 =$ _____   **80.** $5.55 \div .015 =$ _____

81. $49.6 \div 100 =$ _____   **82.** $.4 \div 1000 =$ _____

83. Gail had $715.15 in the bank at the beginning of April. During April, she put in $439.76, $180.73, and $126.49. During April, she took out $163.20, $248.78, and $79.83. How much did she have in the bank at the end of April? _____

84. Diane drove her car at an average speed of 85

kilometers per hour for 3.2 hours. How far did she drive? _____

85. One yard contains 0.914 meters. How many yards are there in 4.57 meters? _____

86. The following data was collected from a business that sells telephone systems.   The bar graph shows the number of phone systems sold, in thousands, during the given years.
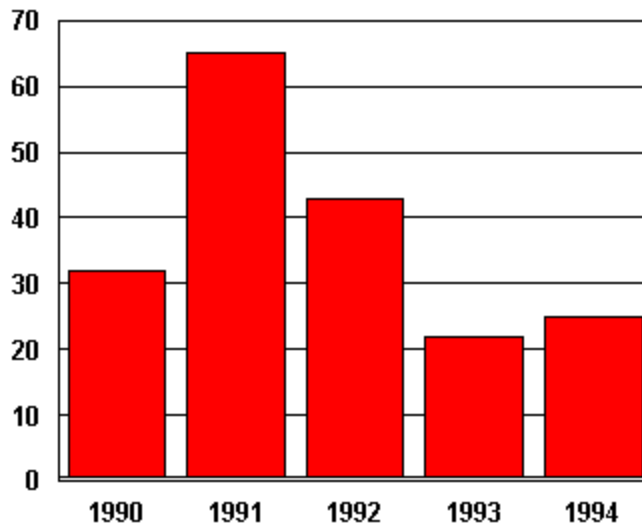
In what year were the most phone systems sold? _____

In what year were the least number of phone systems sold? _____

When did the largest drop in sales occur? _____

A) 1990 to 1991   B) 1991 to 1992

C) 1992 to 1993   D) 1993 to 1994

 When did the smallest increase in sales occur? _____

A) 1990 to 1991   B) 1991 to 1992

C) 1992 to 1993   D) 1993 to 1994

87. This table shows the number of stamps collected by 5 children.

Name	Number of stamps
Steven	53
Nick	83
Al	62
Len	47
James	58

Who collected the second most number of stamps?
_____

How many stamps did the 5 children collect altogether?
_____

How many more stamps did Steven collect than Len?
_____

How many stamps did Al, Nick and James collect altogether? _____

88. This picture graph shows the number of each type of fruit.

Orange	Apple	Mango	Banana	Papaya
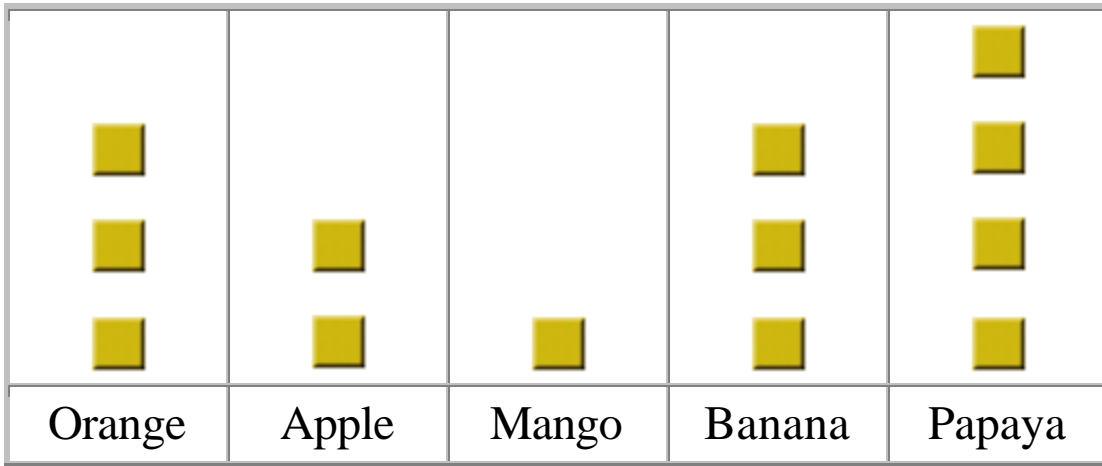
□ stands for 2 fruits.

There are _____ bananas.

There are _____ papayas.

There are as many _____ as bananas.

There are _____ more apples than mangos.

There are _____ fruits altogether

89. The graph below shows daily high temperatures in Tucson, Arizona during the first five days of July one year.

Daily High Temperatures in Tucson, AZ
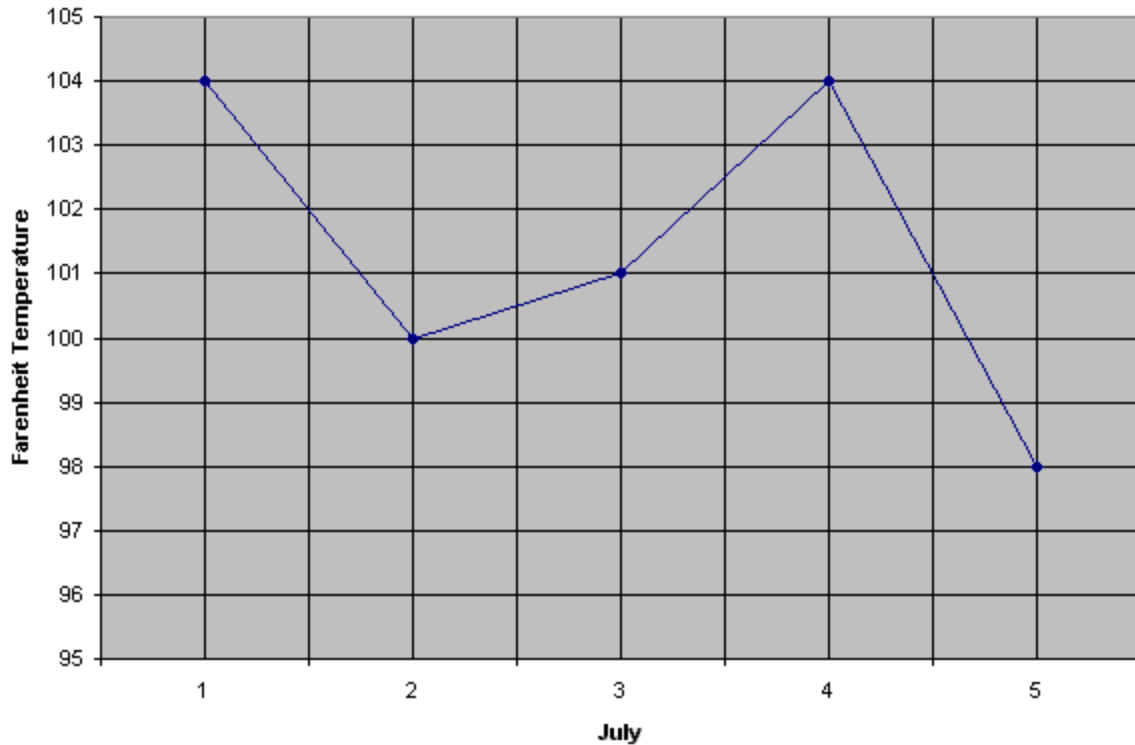
What was the temperature on July 3? _____

On which days was it 104 degrees? _____

90. Round 48628 to the nearest thousand. _____

91. Round 26385000 to the nearest million _____

92. John's teacher timed John's typing each day. On Monday, he typed 45 words per minute. On Tuesday, he typed 46 words per minute. On Wednesday, he typed 54 words per minute. On Thursday, he typed 51 words per minute. On Friday, he typed 59 words per minute. What was John's average number of words per minute? _____

93. 2/9 + 5/9 = _____ **94.** 1/3 + 1/5 = _____

95. 1 3/5 + 7 2/3 = _____ **96.** 5/9 – 2/9 = _____

97. 7/12 – 1/3 = _____ **98.** 5 1/8 – 2 1/5 = _____

99. 3/7 x 3 = _____ **100.** 13/15 x 5/9 = _____

101. 4 2/3 x 1 2/7 = _____ **102.** 1/5 ÷ 1/3 = _____

103. 2 1/8 ÷ 1 1/5 = _____

104. Mickey and Minnie went on diets. Mickey lost 1/3 as much as Minnie did. Mickey lost only 9 pounds. How much did Minnie lose? _____

105. Tom had 12 ¼ pounds of gravel. He used 7 ¾ pounds to fill holes in the driveway. How much gravel did he have left? _____

106. There are 54 students in a math class. On Wednesday, 1/3 of them are absent. How many students were absent? _____

107. Change 3.04 to a mixed number and reduce. _____

108. Round off .8574 to the nearest hundredth. _____

109. The Halls' truck goes 25 kilometres per gallon of gas. How far can the truck go on 5.8 gallons of gas? _____

110. Jack earns $26 a day for an 8-hour workday. He earns $4.90 an hour when he works overtime. On

Tuesday, he earned $40.70. How many hours overtime did he work on Tuesday? _____

111. Thursday Bill drove 278.5 kilometres; Friday he drove 243.7 kilometres; Saturday he drove 386 kilometres; and Sunday he drove 291.8 kilometres. What total distance did he drive those four days?

_____

112. Write 40% as a fraction. _____

113. Change 3/5 into a percent. _____

114. Write 8% as a decimal. _____

115. Change .03 into a percent. _____

116. What percent of 80 is 20? _____

117. What is 25% of 360? _____

118. 65% of what number is 260? _____

119. Find the interest on $500 at 8% annual interest for one year. _____

120. Find the interest on $900 at 6% annual interest for 120 days. _____

121. Terry earns $250 a week. He spends $30 a week on food. What percent of his weekly pay does he spend on food? _____

122. In a factory, 55000 parts were made last year. Only .8% of them were bad. How many parts were bad?

_____

123. The Moore family spends $160 a month for rent. If this represents 25% of their monthly income, what is their monthly income? _____

124. Mandy borrowed $800 at 10% annual interest. How much interest did she owe in three years?

_____

125. Barb worked 6 hours and 50 minutes on Tuesday and 5 hours and 30 minutes on Thursday. How much total time did she work on the two days?

_____

126. During the past 18 years, Jay has worked at an auto parts store. Because of a long illness, he did not work 1 year and 3 months during that 18-year period. How long has he worked there? _____

127. If the tax is 15%, how much tax would you owe for a CD that cost $19.50? _____

128. Find the cost of 9 litres of gasoline at 66.9 cents per litre. Round off your answer to the nearest cent.

_____

129. Debbie decided to buy a $78 mattress and box spring at the Home Town Furniture Store. Every mattress and box spring was 25% off. How much money did she save on the mattress? _____

130. Find the area of a floor that is 7.2 meters long and 5.5 meters wide. _____

Post-Test for Book 14016

Version 2

1. The graph below shows the price of gold, in dollars per ounce, on the last day of each of the given months.

THE PRICE OF GOLD
(Dollars per ounce)

```
$700
$600                    ◆
$500         ◆               ◆
$400                             ◆
$300
$200  ◆
$100
  $0
     July    Aug    Sept    Oct    Nov
```

Price on the Last Day of the Month
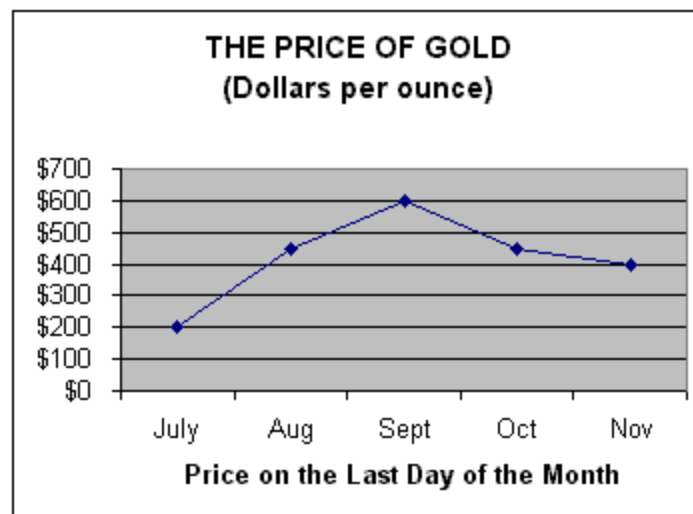
By how much did the price of gold increase, in dollars per ounce, from July to September? _____

In which month was the price of gold the lowest?

_____

2. The Computer Centre sells floppy disks for 89 cents each. Computer Warehouse sells them for $1.05 each. A customer wants to buy 25 disks. How much

will the customer save by shopping at the Computer Centre? _____

3. $9.18 \div .153 =$ _____   **4.** $1/3 \div 5/6 =$ _____

5. A short-order cook uses 1/3 kg of hamburger to make the lunch special. How many specials can he make from 15 kg of hamburger? _____

6. $7.02 \times 3.5 =$ _____

7. Change 4.05 to a mixed number and reduce. _____

8.   800002
     - 703541

9. $3\ 1/5 + 2\ 3/7 =$ _____

10. Which is the better buy: 8 oranges for 51 cents or 9 oranges for 91 cents? _____

11. Carl's teacher asked him for the volume of a box that is 7 centimeters long, 4 centimeters wide, and 9 centimeters high. What is the volume of the box? _____

CARVER ELEMENTARY SCHOOL ICE CREAM SALES

FLAVOR	MONDAY	TUESDAY	WEDNESDAY
	130	116	121
	78	42	137
	43	23	17
	45	21	35
	20	11	17

a. How many Sundae Cones were sold on Tuesday?
_____

b. How many Crunch Bars were sold on Wednesday?
_____

c. What was the total number of ice creams sold on Wednesday? _____

d. How many more Chocolate Éclair Bars were sold on Wednesday than on Monday? _____

13. The following data was collected from a kennel club. The bar graph shows the number of dogs, in

thousands, that were registered with the club during the given year.

Kennel Club Registration (1985)
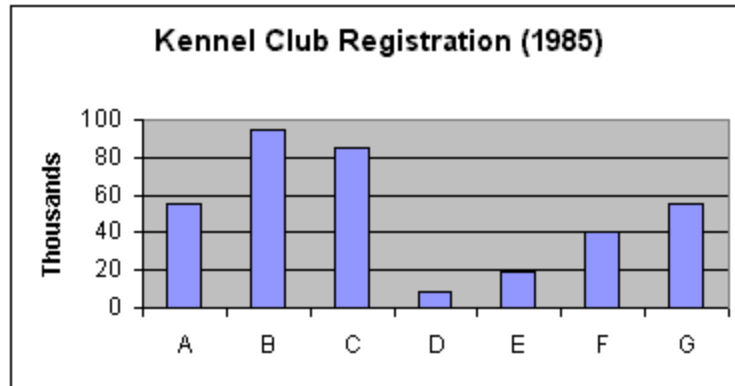
A = German Shepherd

B = Cocker Spaniel

C = Poodle

D = Great Dane

E = Collie

F = Beagle

G = Golden Retriever

a. Which dogs had about the same registration?

   _____

b. About how many beagles were registered in 1985?

   _____

14. What time is indicated on the clock face below?

_____

15. Round 63850002 to the nearest million _____

16. Make the equivalent fraction: $\dfrac{6}{7} = \dfrac{?}{28}$ _____

17. My brother earns $235 a week. How much does he make in a year? _____

18. Use "<" or ">" to compare the following pairs.

.6 _____ .66   .2 _____ .2022

19. Write the numeral for this number word: **twenty thousand and three** _____

20.   10
       x 362

21. Write >, <, or = to compare each pair of numbers below.

8304 _____ 8430   693205 _____ 605932

22. Mary scored 89, 74, 93, 79, and 85 in five math tests. Find her average score. _____

23. How many tens are in 745923? _____ **tens**

24. Carol works after school. Last week, she worked 3 ¾ hours on Monday and 2 ½ hours on Wednesday. How many hours did she work altogether?

_____

25. This picture graph shows the number of stickers collected by four girls.

Our Stickers

Amy	* * * * * *
May	* * * * * * *
Sara	* * * *
Ann	* * *

Each * stands for 10 stickers

    b. _____ collected the greatest number of stickers.

26.   91465
     87592
 + 12386

27. 3/4 – 1/3 = _____

28.   48
  x 73

29. 78 x 64 = _____

30. 25 + 4973 + 6 + 10462 = _____

31. 327
   x 1

32. 1 5/8 ÷ 1 1/4 = _____

33. Reduce 24/82 to its lowest terms. _____

34. 96.4 ÷ 100 = _____

35.   19375
   + 50423

36. 7/20 x 8/15 = _____   **37.** 7 4/9 x 3 9/16 = _____

38. Find the area of a triangle that has an 8 centimeter base and is 3 centimeters high. _____

39. The seating capacity of the bleachers at the new athletic field is 729 persons. The stands at the old field held only 493 persons. How many more people can now be seated? _____

40. Find the cost of 1.74 pounds of steak selling at $3.99 per pound. Round off your answer to the nearest cent. _____

41. Arrange the following list in order from the greatest to the least.

.04   .054   .54   .45

_____

4.03   33.043   33.23   4.3

_____

42. Change 9/10 into a decimal. _____

43. 853114 - 693472 = _____

44. Write a Roman numeral for each of the following numbers.

1942 _____   767 _____   152 _____

45. A weather report says that the afternoon temperature for the first day of summer will be 28.6 degrees Celsius. The afternoon temperature will be 21.3 degrees greater than the morning temperature. What was the morning temperature on the first day of summer? _____

46. 313 ÷ 26 = _____

47. Write the numbers that are left out: **68, 70, 72,** _____, _____, **78,** _____

48. Express the date below with numeric dating using y/m/d.

June 18, 2002 _____

49. 109762
+ 840123

50. Write the numbers that are left out: **85, 87, 89, 91,**

_____, _____, _____

51. Factor each of the following numbers as a product of prime numbers.

46 _____

78 _____

52. Jenny worked for 3 hours 50 minutes on Monday and 5 hours 15 minutes on Tuesday. How long did she work over the two day period? _____

53. Rita will put $14.30 in her savings account. This is 5% of her weekly paycheck. How much is her weekly paycheck? _____

54. What is 15% of 950? _____

55. Ed earns $8.50 per hour. He spends 30% of his hourly wage on child care. How much does he spend per hour on child care? _____

56. June deposited $2500 in her savings account for 2 years. How much interest did the money earn at 7%? _____

57. George borrowed $1450 at 9% annual interest. How much interest did he owe in four years? _____

58. At the warehouse where Rose works, 140 cartons had to be loaded into a truck for delivery. By lunchtime, 119 cartons had been loaded. What percent of the cartons had been loaded? _____

59. Find the interest on $675 at 4% annual interest for 90 days. _____

60. 90% of what number is 495? _____

61. Jack was given a 6-hour telephone card as a gift, which allows him to charge long distance calls. He has used 2 hours 39 minutes. How much time does he have left on the card? _____

62. If the tax is 3%, how much tax would you owe for a calculator that cost $24.99? Round off your answer to the nearest cent. _____

63. Find the area of a floor that is 6.8 meters long and 1.625 meters wide. _____

64. You buy 5 kg of meat. It costs $5.99 per kilogram. What is the total cost? _____

65. James drove 362.8 kilometers on a business trip. He averaged 90.7 kilometers per hour. How many hours did James drive? _____

66. Mrs. Grant supervises 18 cashiers in her department. Two thirds of them work at night. How many cashiers work at night? _____

67. 8 1/5 – 5 1/2 = _____

68. Pat has 3 ¾ hours to spend in the computer lab. She spent 1 ½ hours learning a new program. How much time does she have left to spend in the lab? _____

69. Karen runs 2.16 kilometers on Monday and 6.7 kilometers on Tuesday. How many kilometers does she run in all? _____

70. Change ¾ into a percent. _____

71. Write 70% as a fraction. _____

72. Grace charges $15 for a haircut and $45 for a permanent. If she does 10 haircuts and 3 permanents on Tuesday, how much money will she earn that day? _____

73. Write the number word for this numeral: **1,385,069**

_____

74. 21 - .73 = _____

75. Change .17 into a percent. _____

76. Write 3% as a decimal. _____

77. What percent of 140 is 28? _____

78. April decided to buy a $115 raincoat. The raincoat was 30% off. How much money did she save on the raincoat? _____

79. Write the number word for this numeral: **204,913**

_____

80. Round 86284 to the nearest thousand

81. Find the perimeter of a rectangle that is 100 cm long and 33 cm wide. _____

82. .8 ÷ 1000 = _____

83. Art wants to save $6000 per year. If he saves the same amount each month, how much should that amount be? _____

84. Write the numbers that are left out: **55, _____, 65, 70, _____, _____, 85**

85. Write the numeral for this number word: **one million, nine hundred and four thousand, eight hundred and five** _____

86. 1 hr = _____ sec **87.** 9.24 x 10 = _____

88. 311 ÷ 92 = _____

89. What number does each of the following Roman numerals represent?

MCLXV _____ DCCCXLVII _____ CXCIX _____

90.   30000
       - 4097

91. 5/6 x 7 = _____

92. Which number is the greatest? Circle it.
8642   8643   8641

93. Sarah's bank account balance is $715. If she makes a
deposit of $375, what will her balance be?

_____

94. Find the least common denominator (lowest common
multiple) for 1/6, 3/7, and 2/9. _____

95. Bill's parking lot was 60.3 meters wide. How many
centimeters is that?   _____

96. .4 + .078 = _____

97. 1268 + 56347 + 92 = _____

98. 1000 x .08 = _____   **99.** 42.55 ÷ 2.3 = _____

101. Walter spends 3 weeks in Mexico. How many days is
that? _____

102. Solve each equation below.

$c + 9 = 9$ _____

$x - 6 = 4$ _____

104. The Sock Hop Shop was having a clearance sale. Mary bought 32 pairs of socks for $1.89 each. How much did she spend at the sale? _____

105. Change 8/5 into a mixed number. _____

106. 74 x 100 = _____

107. A brand of hair conditioner contains .52 g of special ingredients A, B, and C. There are .06 g of ingredient A and .1 g of ingredient B in the conditioner. How many grams of ingredient C are in the conditioner? _____

108. 88001 mm = _____ m

109. Circle the prime numbers in the list below.

18   81   7   19   35   93

112. 5 days = _____ hr **113.** 360 min = _____ hr

114. 682 ÷ 2 = _____ **115.** 1/12 + 1/4 = _____

116. 324 ÷ 54 = _____

117. Mr. Jones, the school librarian, orders 8 dictionaries at $24 each. What is his total bill? _____

118. Change 7 3/5 into an improper fraction. _____

119. Write the numbers that are left out: **1002**, **1003**, _____, **1005**, **1006**, _____, _____

120. Write the numbers that are left out: **106493, 106494,** _____, _____, **106497, 106498,** _____

121. 4 g = _____ mg

122. Round off .5748 to the nearest hundredth. _____

123. 713 ÷ 351 = _____   **124.** 7/10 – 3/10 = _____

125. Write the numbers that are left out: **40,** _____, _____, **70, 80,** _____, _____

126. 1/8 + 5/8 = _____   **127.** 4.62 + .007 = _____

128. How many ten thousands are in 324569? _____ **ten thousands**

129. Which number is the least? Circle it.
530848   674938   529348

130. Arrange the following lists in order from the least to the greatest.

.601   .61   .016   .1

_____

1.074   42.4   42   40.074

_____

Post-Test for Book 14017

1. 8196 + 75883 + 29 + 334 = _____

2. 232 + 80465 + 19 + 1591 = _____

3. 695048	**4.** 289713	**5.** 610199
+ 998273	665014	583045
	+ 959084	236980
		+ 346706

6. 60000 - 3118 = _____

7. 40000 - 6417 = _____

8. 877001	**9.** 905000
- 497853	- 876989

10. 70212 x 24 = _____   **11.** 61201 x 31 = _____

12. 8011	**13.** 411	**14.** 31212
x 7	x 80	x 443

15. 4473 ÷ 7 = _____   **16.** 13720 ÷ 46 = _____

17. $60501 \div 67 =$ _____ **18.** $41406 \div 618 =$ _____

19. $41952 \div 552 =$ _____

20. Al decided to go off his diet for one day, so he went to his favorite restaurant. First he had a ginger ale (75 calories) with 50 pretzel sticks (200 calories). Then he ate a cheese pizza (555 calories) and drank a Coke (95 calories). How many calories did Al take in?

_____

21. Dan bought a car for $3240. If he made a down payment of $677, how much does he owe on the car?

_____

22. Light travels at a speed of 186,000 miles per second. How far can light go in 17 seconds? _____

23. Sam earned a total of $46000 over the past four years. What was the average amount that he earned per year?

_____

24. Each team in the 8-team football league used to have a roster of 36 players. The league decided to decrease each team's roster size by 3 players. After the change, how many players were in the league? _____

25. Change 50/12 into a mixed number. _____

26. Make the equivalent fraction: $\dfrac{1}{3} = \dfrac{?}{45}$ _____

27. Lois talked on the phone for 1/8 of an hour in the morning, 3/5 of an hour in the afternoon, and 1 2/3 hours in the evening. How much time did she spend on the phone that day? _____

28. Reduce 35/49 to its lowest terms. _____

29. 3.6 m = _____ cm   **30.** 3g = _____ mg

31. 3.2 L = _____ kl

32. George bought a 2.8-kilogram package of ground beef. How many grams did he buy? _____

33. Circle the prime numbers in the list below.

   7   10   33   41   18   29

34. Factor each of the following numbers as a product of prime numbers.

   45 _____

   111 _____

35. Change 1/5 into a decimal. _____

36. .0097 + 2.8 = _____

37. 83.007 + .47 + 9.8 = _____

38. 5 – 2.493 = _____   **39.** .47 - .3992 = _____

40. 40.21 x 20.8 = _____

41. 300.003 x 56.8 = _____

42. 3237 ÷ .039 = _____   **43.** 558.6 ÷ .06 = _____

44. Cathy pays $99.90 for her monthly train pass. If she used her pass twice a day for 23 days last month, what was the average cost of each ride? _____

45. Find the total weight of three packages that weigh 4.2 kilograms, 2.37 kilograms, and .45 kilograms.
_____

46. The metal platform of a bridge that is 124.2 meters long in the summer shrinks by 1.05 meters in the winter. How long is the bridge platform in the winter?
_____

47. This graph shows how many people rode a bus during the first six months of one year in one town.

Number of People Riding Buses
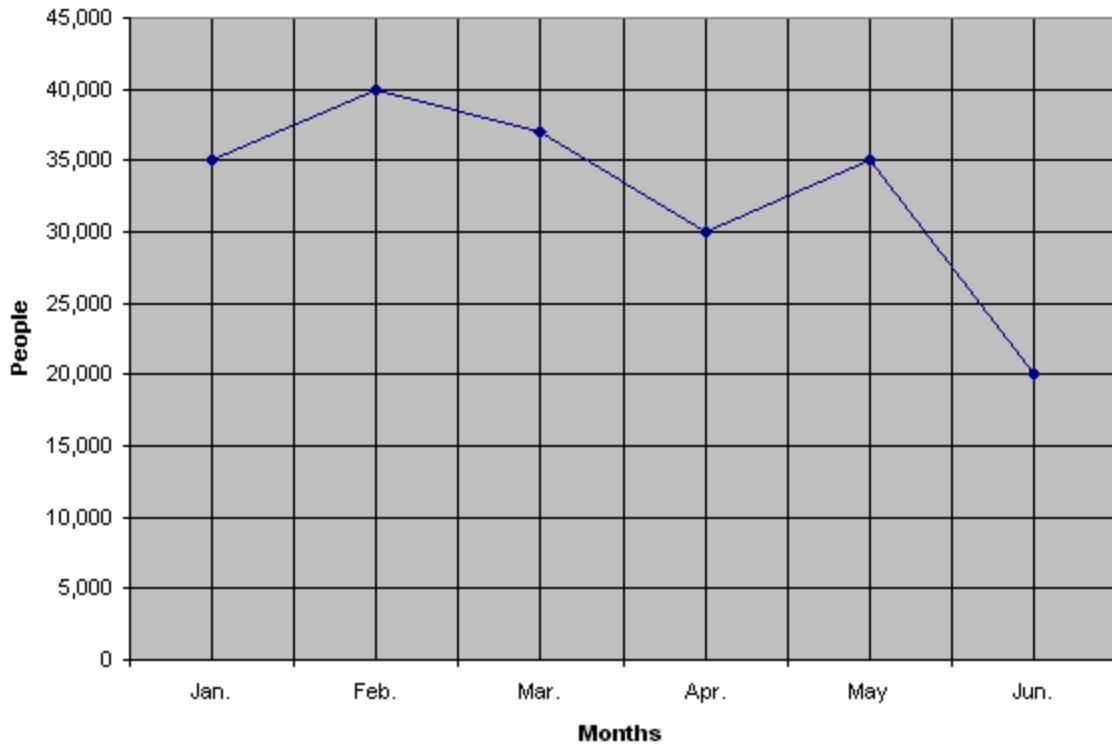
In the graph above, in which month did the most people ride the bus? _____

In the graph above, how many people rode the bus in January? _____

48. Use the graph below to answer the questions below regarding lateness at the Wilson School.

Lateness at the Wilson School
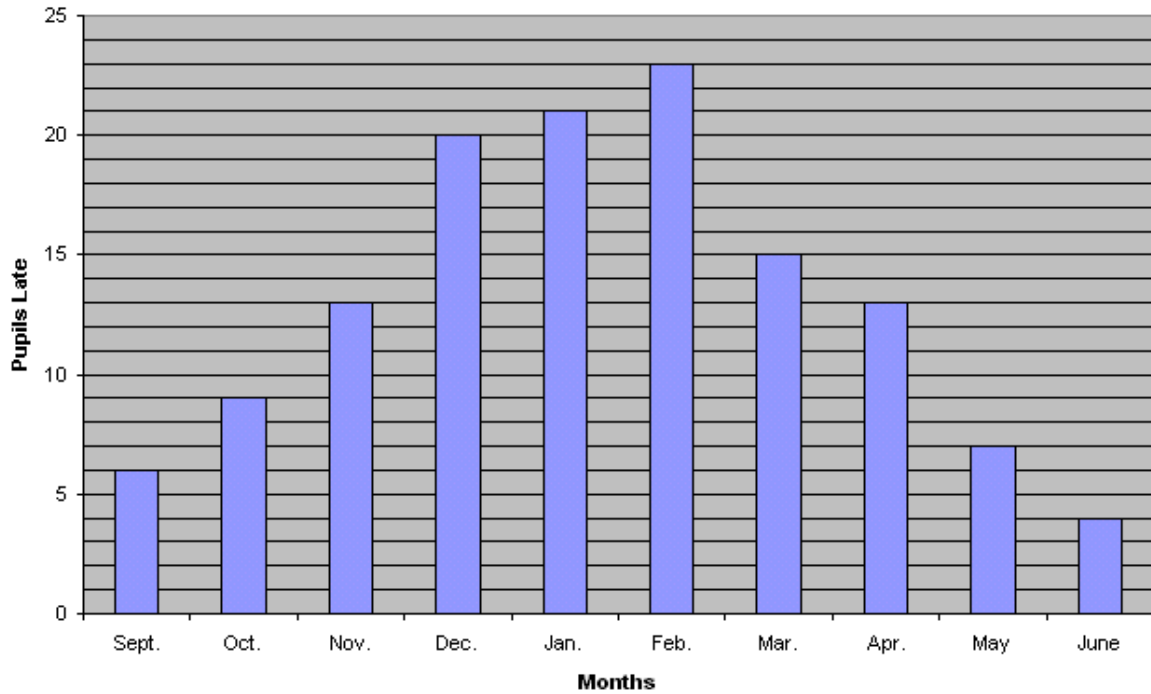
How many pupils were late in February? _____

Which month had a total of 15 pupils late? _____

49. The Phillips family took three days to drive from New Brunswick to their grandparents' house in Manitoba. Thursday they drove 779 kilometers; Friday they drove 627 kilometers; and Saturday they drove 730 kilometers. What was the average distance that they drove each day? _____

50. $9/16 + 15/16 =$ _____ **51.** $5/9 + 2/3 =$ _____

52. $6\ 9/10 + 5\ 2/3 =$ _____

53. $17/20 - 13/20 =$ _____

54. $5/9 - 1/6 =$ _____   **55.** $24\ 3/16 - 9\ 2/3 =$ _____

56. $2 \times 9/10 =$ _____   **57.** $6\ 3/7 \times 4/5 =$ _____

58. $16\ 1/3 \times 2\ 5/14 =$ _____   **59.** $24 \div 1\ 7/11 =$ _____

60. $10\ 5/8 \div 4\ 1/2 =$ _____

61. How many ¾-pound cans of tomatoes can be filled from 24 pounds of tomatoes? _____

62. If you change a turntable speed set at 45 rpm's to 33 1/3 rpm's, how many revolutions per minute slower does the turntable spin? _____

63. Mary gets $6.00 an hour where she works. For overtime she gets "time and a half" (1 ½ times her regular wage). How much does she get for one hour of overtime work? _____

64. Change 3.075 to a mixed number and reduce. _____

65. Round off .4758 to the nearest tenth. _____

66. It costs about 84 cents per hour to use a 100-watt light bulb. How much does it cost to use it for 4.5 hours?
_____

67. Glen had $74.81 in his checking account. He wrote checks for $46.19 and $22.45. He then made a $60.00 deposit. What was his new balance? _____

68. There are 2.54 centimeters in one inch. How many inches are there in 45.72 centimeters? _____

69. Write 4% as a fraction. _____

70. Change 9/50 into a percent. _____

71. Write 19% as a decimal. _____

72. Change .8 into a percent. _____

73. What percent of 200 is 160? _____

74. What is 1.8% of 753? _____

75. 20% of what number is 175? _____

76. Rachel has been sick 8 days out of the past 48. What percent of the time has she been sick? _____

77. Walter's weekly take-home pay is $151.32, which is 78% of his gross pay (before deductions). What is Walter's weekly gross pay? _____

78. Joe was supposed to work 250 days last year. He was absent 4% of the time because he was sick. How many days did he miss? _____

79. Find the median using the numbers below.

131   110   119   156   The median is _____

80. Find the mode using the numbers below.

5   7   8   6   9   4   6   1

The mode is _____

81. Write the expanded form.

$5^3 = $ _____

82. What is the reciprocol of 5/8? _____

83. Circle the ratio that is equivalent to 2:5.

6:5   9:24   4:10   2:15   1:3

84. The Slammers played 100 hockey games. They won 80 games. What is the ratio of games won to games played? Reduce your answer. _____

85. (-3) + (-5) = _____   **86.** (5) – (-5) = _____

x -4 = _____   **88.** 36 ÷ -12 = _____

89. On a winter night the temperature dropped from –3 degrees Celsius to –12 degrees Celsius. What was the change in temperature? _____

90. A meteorologist measured the air pressure every hour. Each hour the change in pressure was –5 millibars. What was the total change after three hours?

_____

91. Write an algebraic expression for each word expression below.

A number x plus 9   _____

Two times a number y _____

One subtracted from z _____

92. Solve each of the following.

$6 \div 3 \times 2 =$ _____

$24 + 8 - 6 =$ _____

$12 \div 3 + 6 \div 3 =$ _____

Post-Test for Book 14017

Version 2

1. 1018
   x   8

2. What is 8.1% of 537? _____

3.   950486
   + 982739

4. 700.007 x 68.5 = _____   **5.** 5/6 – 1/9 = _____

6. 30. 078 + .74 + 8.9 = _____

7. 12016 x 13 = _____

8. If each of the 7 people on the social committee call 25 names, how many people will be called? _____

9. Change 12/5 into a mixed number. _____

10. Circle the prime numbers in the list below.

    9   2   22   11   81   92

11. This graph shows the quarterly grades for Mrs. Jones's class.
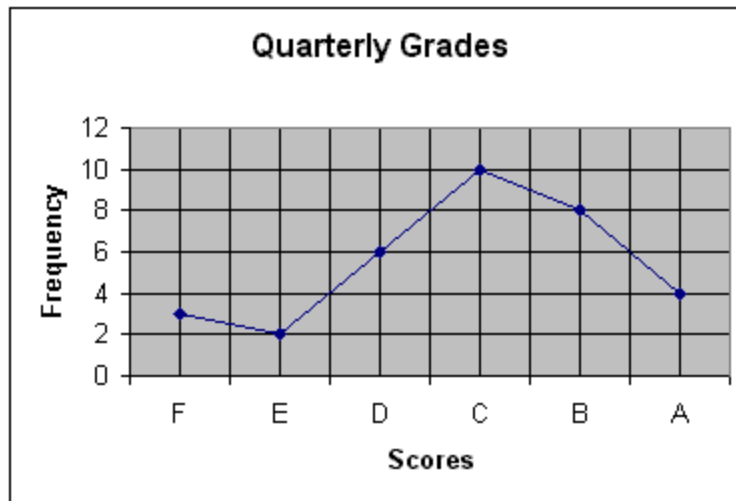
In the graph above, how many students received a grade of C or better? _____

12. In a recent school raffle, Mrs. Hart's class sold 550 chances. If the whole school sold 2750 chances, what percent did Mrs. Hart's class sell? _____

13. Change .6 into a percent. _____

14. 3 5/6 x 4/7 = _____

15. There are 20 floors in the Bennett Building. Mary got on the elevator on the 6th floor and went down 4 floors

to attend a meeting. Then she went up 8 floors to the computer center. Finally, she went down 9 floors and got off the elevator. On what floor did Mary get off the elevator? _____

16. (-6) + (-8) = _____

17.   114
         x 60

18. Write an algebraic expression for each word expression below.

Double a number and subtract 4   _____
Add 5 times a number to 4   _____

19. Change 7.053 to a mixed number and reduce. _____

20. 13950 ÷ 186 = _____

21. A large serving bowl can hold 30 cups of punch. How many ¾ cup helpings can be served from the bowl? _____

22. Scott's baseball game took 2 1/3 hours, while his basketball game took only 1 ½ hours. How much longer did Scott play baseball than basketball? _____

23. Use the graph below to answer the questions below regarding the 5 largest cities in the world.

5 Largest Cities in the World
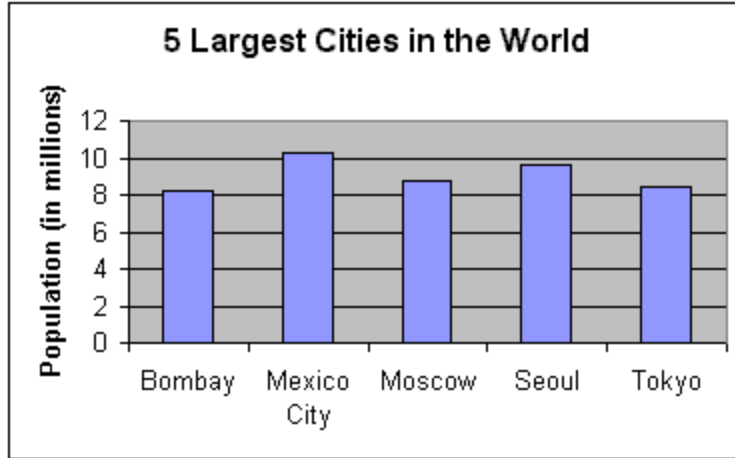
Which city has the second largest population?
_____

What is the population of Bombay, India? _____

24.   897132
         650146
       + 590849

25. 20127 x 42 = _____   **26.** 586.5 ÷ .05 = _____

27.   500009
        - 469889

28. Factor each of the following numbers as a product of prime numbers.

       54 _____
      222 _____

29. 43 1/26 – 2 1/3 = _____

30. Make the equivalent fraction: $\underline{3} = \underline{?}$ _____
                                            4   52

31. For a three day series, the Blue Jays drew crowds of 50002, 49765, and 47899. How many attended the whole series? _____

32. Change 3/20 into a percent. _____

33. Write 8% as a fraction. _____

34. 9 – 4.532 = _____

35. Lou worked at the community center for 3 ¼ hours each day for 4 days. How many hours did he work?
_____

36. Write 91% as a decimal. _____

37. (1) – (-2) = _____ **38.** –45 x -5 = _____

39. 10% of what number is 752? _____

40. During the first half of a football game, the Tigers lost 7 yards rushing. During the second half, they gained 63 yards rushing. How much better did they do in the second half than in the first half? _____

41. 50084 ÷ 76 = _____

42. Write the expanded form.

$3^3 = $ _____

43. $2368 \div .074 = $ _____

44. Daniel spends $89.50 on groceries and $29.43 on records. How much more does he spend on groceries than on records? _____

45.   770018
   - 534978

46. Change 8/25 into a decimal. _____

47. 2.3 ml = _____ L **48.** 9 x ½ = _____

49. 7/12 – 5/12 = _____ **50.** $4734 \div 9 = $ _____

51. Reduce 54/93 to its lowest terms. _____

52. $63 \div -21 = $ _____ **53.** 6.3 km = _____ m

54. In a line up of boots, you see 14 pairs of yellow boots and 10 pairs of black boots. What is the ratio of yellow boots to black boots? Reduce your answer.

_____

55. $19425 \div 525 = $ _____

56. Find the total weight of three items that weigh 2.32 kilograms, 18.17 kilograms, and 15.1 kilograms.

_____

57. 12123
x 434

58. 30000 - 1186 = _____

59. 101996
830455
369802
+ 467063

60. Find the average height of three boys if their heights are 150 cm, 136 cm and 149 cm? _____

61. 9 1/6 + 2 3/5 = _____

62. A pharmacist has 8.2 grams of medicine in a bottle. How many milligrams of medicine is in the bottle?

_____

63. Ken sold 2 cameras for $175 each and 3 cameras for $150 each. If he earns a $35 commission for each sale, how much did he earn in commission?

_____

64. .0079 + 8.2 = _____ **65.** 42 ÷ 7 1/11 = _____

66. 13 1/6 x 5 1/42 = _____

67. What percent of 600 is 150? _____

68. The Parkville School District had 18596 children enrolled in its schools last year. 20132 children are enrolled in its schools this year. By how many children did the enrollment grow? _____

69. Round off .7584 to the nearest tenth. _____

70. Circle the ratio that is equivalent to 3:7.

4:8   6:10   1:4   9:21   2:6

71. Mike made a tape of his favorite songs. One half of the tape contains dance music and 1/6 of the tape contains rock music. What part of the tape has he used so far? _____

72. Solve each of the following.

3 x 4 + 2 = _____

3 + 8 ÷ 2 = _____

7 x 5 + 4 x 8 + 2 = _____

73. 8 kg = _____ g

74. On his weekly science tests Mark received grades of 87, 79, 92, 64, 88, 75, and 96. Find his average grade in science. _____

75. Find the median using the numbers below.

311   101   191   561   The median is _____

76. Notebooks cost 85 cents each. How many can Joe buy for $4.25? _____

77. The school baseball team won 39 games, or 52% of the games it played. How many games did it play? _____

78. 1968 + 58837 + 92 + 343 = _____

79. A camera that regularly sells for $58 is advertised at 20% off. How much will the savings be? _____

80. 6/19 + 5/19 = _____

81. Find the mode using the numbers below.

6   4   6   8   4   9   7   6

The mode is _____

82. Carol wants to build 12 shelves. If each shelf is 1.3 meters long, how much lumber does she need in all? _____

83. What is the recipricol of 6/7? _____

84. 21.41 x 82.2 = _____   **85.** 60000 - 4174 = _____

86. 5 4/5 ÷ 1 1/2 = _____   **87.** 37201 ÷ 64 = _____

88. Five flags are equally spaced around the edge of a circular track. The track is 400 m around. How far apart are the flags? _____

89. .74 - .2399 = _____   **90.** 2/9 + 3/5 = _____

91. 322 + 46580 + 91 + 5911 = _____

92. Smith's Berry Barn had sales of $82.37 on Saturday morning and sales of $136.29 on Saturday afternoon. On Sunday morning the Berry Barn's sales were $51.04. Sunday afternoon, the sales were $127.76. How much more did the Berry Barn earn on Saturday than on Sunday? _____

Post-Test for Book 14018

(Note – You will need graph paper to complete some questions on this test.)

1. 1275 + 23407 + 86 = _____

2. 79 + 6041 + 5 + 32408 = _____

3.   893574
   + 974464

4.   642566
      850952
   + 741969

5.   255887
     527327
     698523
  + 968452

6. $545611 - 39768 =$ _____

7. $750000 - 7050 =$ _____

8.   705961
   - 536809

9.   450000
   - 328542

10. $200 \times 503 =$ _____   **11.** $4520 \times 3006 =$ _____

12.   6080
    x   5

13.   69
  x 608

14.   60506
   x 125

15. $4584 \div 6 =$ _____   **16.** $37040 \div 40 =$ _____

17. $37981 \div 82 =$ _____   **18.** $10800 \div 144 =$ _____

19. $13398 \div 231 =$ _____

20. Find the combined weights of the following people: Pete, 96 kg.; John, 75 kg.; Wendy, 57 kg.; Matt, 90 kg.; Lynn, 61 kg.; Bob, 100 kg.; Susan, 54 kg.; and Hope, 62 kg. _____

21. One year a store in Moncton sold 586,412 rock and roll CD's and 267,338 country music CD's. How many more rock CD's were sold? _____

22. To pay off their mortgage, the Smiths agree to pay $150 a month. How much will they pay in one year?

_____

23. If Pete drove 630 kilometers in 7 hours, what was his average speed in kilometers per hour? _____

24. Jerry's restaurant had 4 small dining rooms with a capacity of 28 people each and a main dining room with a capacity of 94 people. What was the total capacity of the restaurant? _____

25. Change 42/9 into a mixed number. _____

26. Make the equivalent fraction: $\dfrac{7}{12} = \dfrac{?}{60}$ _____

27. Ruby spends her evenings trying to change her attic into an extra bedroom. Monday night she worked 3 ½ hours; Tuesday night she worked 4 1/3 hours; Wednesday she worked 2 ¾ hours; and Thursday she worked 3 2/3 hours. How many hours did she work on her attic that week? _____

28. Reduce 63/81 to its lowest terms. _____

29. 2.25 m = _____ mm   **30.** 17 kg = _____ g

31. 600 ml = _____ L

32. Patrick works in a nursing home. He makes sure his patients drink at least 2000 milliliters of water every day. How many liters of water should each patient drink? _____

33. Circle the prime numbers in the list below.

     13   26   37   45   58   43

34. Factor each of the following numbers as a product of prime numbers.

    25 _____

    124 _____

35. Change 6/25 into a decimal. _____

36. 32.637 + 5 + 1.98 = _____

37. 8.04 + 26 + 31.263 = _____

38. .07 − .002 = _____   **39.** 3.2 - .1986 = _____

40. 913.2 x .049 = _____

41. 5183.6 x .0016 = _____

42. 1178 ÷ .019 = _____   **43.** 156.8 ÷ .32 = _____

44. Cathy and Peter went clothes shopping for their baby daughter, Jenny. They bought 5 sleepers for $8.95 each and 6 T-shirts for $2.40 each. How much money did they spend? _____

45. There are 1.6 kilometers in a mile. How many miles are there in 36.8 kilometers? _____

46. When Sam began driving on Monday morning, his mileage gauge read 26285.92 kilometers. When he stopped driving Monday night, it read 26930.24 kilometers. How many kilometers did he drive that day? _____

47. This graph shows the average weight for men 6 feet tall.

AVERAGE WEIGHT FOR MEN (6' TALL)
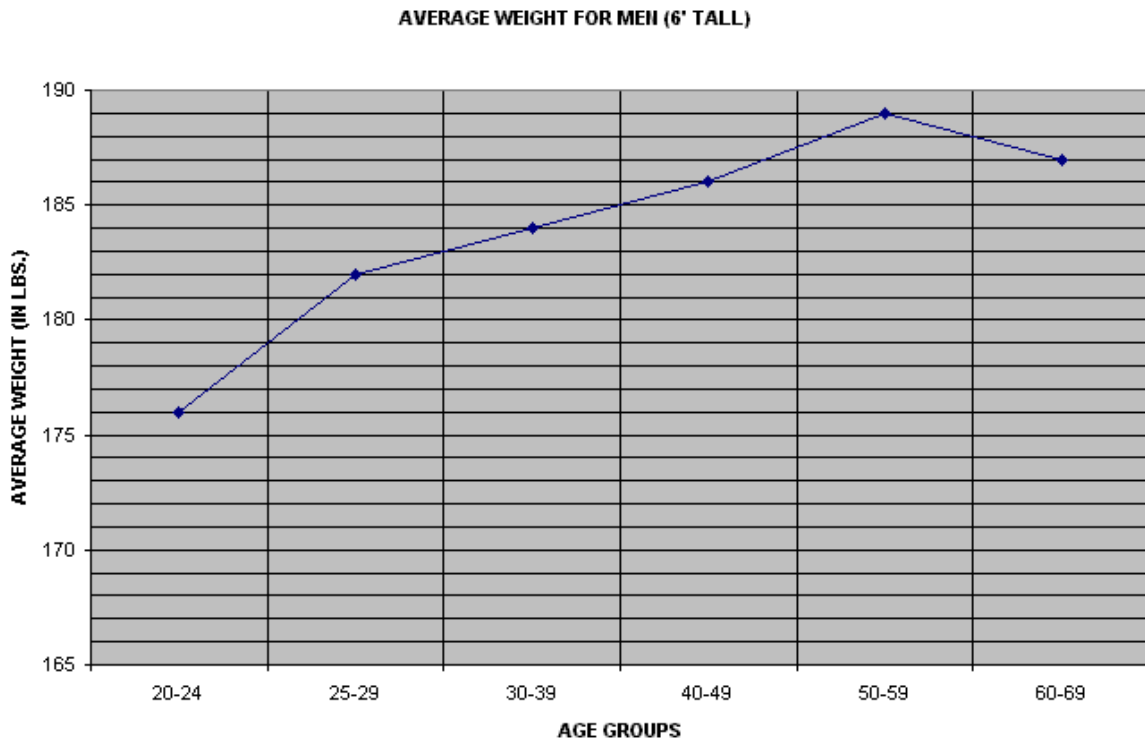
What is the average weight for a 6-foot-tall, 28-year-old man? _____

On the average, until what age can a man's weight be expected to increase? _____

48. The graph below shows how the number of people living below poverty level changed over a period of several years.

PERSONS BELOW POVERTY LEVEL

YEARS	

(bar chart with years 1981–1987 on vertical axis; horizontal axis "NUMBER OF PEOPLE (IN MILLIONS)" from 30.5 to 35.5)

- 1987: ≈ 32
- 1986: ≈ 32
- 1985: ≈ 33
- 1984: ≈ 34
- 1983: ≈ 35
- 1982: ≈ 34
- 1981: ≈ 32

NUMBER OF PEOPLE (IN MILLIONS)
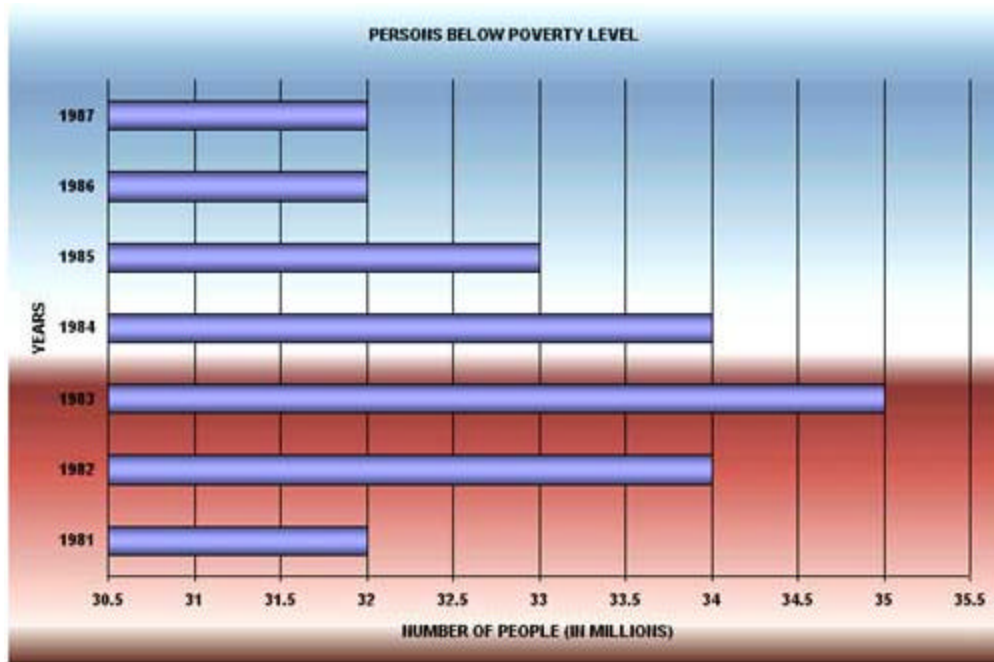
How many people were living below poverty level in 1987? _____

In what year was the number of people living in poverty the highest? _____

49. In 1978 Mr. Lee made $8240; in 1979 he made $9185; in 1980 he made $2062; and in 1981 he made $6485. What was his average annual income for these years?

_____

50. 11/15 + 7/15 = _____ **51.** 5/6 + 1/3 = _____

52. 3 7/8 + 11 3/5 = _____

53. 11/19 – 8/19 = _____

54. 5/6 – 3/5 = _____ **55.** 13 2/9 – 7 5/6 = _____

56. 7/12 x 36 = _____ **57.** 4 2/3 x 15/16 = _____

58. 3 5/7 x 4 3/8 = _____ **59.** 9 ÷ 1 7/8 = _____

60. 5 5/6 ÷ 3 5/12 = _____

61. How many 1 ½-pound loaves of bread can be made from 9 pounds of dough? _____

62. Mr. Green had a 5-pound bag of flour. If he used 1 1/6 pounds of flour for a certain recipe, how much flour did he have left? _____

63. Robert makes $7.00 an hour when he works overtime. How much does he make for 3 ¼ hours of overtime work? _____

64. Change 48.02 to a mixed number and reduce. _____

65. Round off .5748 to the nearest hundredth. _____

66. If a plane flew 3868.2 kilometers in 6.3 hours, what was its average speed in kilometers per hour?

_____

67. Mark bought 3 paperbacks for $2.95 each and 2 magazines for $1.50 each. He paid for his purchases

with a $20 bill. How much change did he receive?

_____

68. What is the square root of 36? _____

69. Write 80% as a fraction. _____

70. Change 3/5 into a percent. _____

71. Write 2.8% as a decimal. _____

72. Change .009 into a percent. _____

73. What percent of 50 is 45? _____

74. What is .8% of 56? _____

75. 80% of what number is 244? _____

76. Last year the population of Belleville was 16,000 people. In one year the population has increased by 800 people. The increase represents what percent of last year's population? _____

77. Mr. Moore pays 52 cents for a dozen small eggs. 52 cents is 65% of the amount he charges his customers. How much do his customers pay for a dozen small eggs? _____

78. Kate gets a 15% discount on the price of anything in the store where she works. How much will she save on a dress that is priced at $28? _____

79. Find the median using the numbers below.

78   85   83   81   92   86   90

The median is _____

80. Find the mode using the numbers below.

80   75   93   81   98   93   57

The mode is _____

81. Write the expanded form.

10^3 = _____

82. What is the recipricol of 4/9? _____

83. Circle the ratio that is equivalent to 3:7.

6:14   9:24   4:7   3:15   1:5

84. In a class with 30 students, there are 18 women and 12 men. What is the ratio of men to women in the class?

_____

85. 10 - (-5) – (-2) = _____

86. (-8) + (7) + (-9) = _____

87. –3 x 5 x 6 = _____   **88.** -56 ÷ -7 = _____

89. At 7:00 a.m., the temperature was –19 degrees Celsius. By 11:00 a.m., the temperature was 5 degrees Celsius. How many degrees did the temperature rise?

_____

90. On a multiple choice quiz, 3 points were given for each correct answer, -2 points for each incorrect answer, and –1 point for each question left unanswered. Out of 20 questions, Jim answered 13 correctly and 4 incorrectly. What was his score? _____

91. Write an algebraic expression for each word expression below.

Fifteen divided by w _____

The product of 3 and v _____

u minus 7 _____

92. Solve each of the following.

$12 + 8 \div 4 =$ _____

$35 - 16 \times 2 =$ _____

$(50 - 25) \div 5 =$ _____

93. Six is the square root of what number? _____

94. $2^2 + 6^2 =$ _____

95. $8^3 - 3^3 =$ _____

96. $7^2 + 3^3 - 4^1 =$ _____

97. $5^3 \times 3^2 =$ _____

98. $11^4 \div 2^2 = $ _____

99. $9^5 \times 9^2 \times 9^3 = $ _____

100. $\dfrac{z}{16} = \dfrac{200}{80}$ _____

101. 12 feet of lumber costs $40. How much will 30 feet cost? _____

102. Are the lines below parallel, perpendicular or both?

↑↑
↓↓ _____

103. Identify each of the angles below as acute, obtuse, right, straight, complete, or reflex.

_____   _____
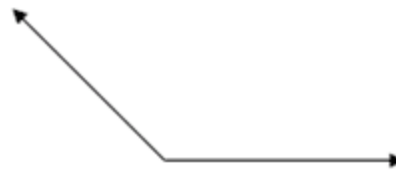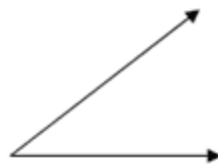
104. What is the complement of 14º? _____

105. What is the supplement of 138º? _____

106.   What are the values of ∠2, ∠3, and ∠4 in the drawing below?

107.

150°

1

4   2

3

∠2 = _____

∠3 = _____

∠4 = _____
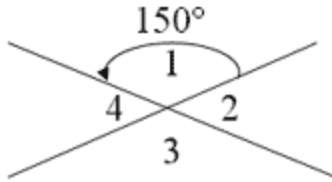
107. What are the values of ∠5, ∠6, and ∠8 in the drawing below?

80°

5

A

6

B

8

∠5 = _____

∠6 = _____

∠8 = _____
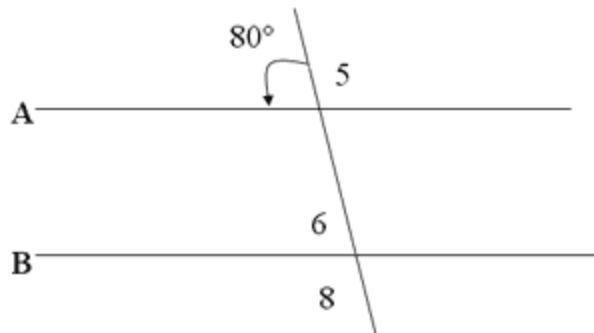
108. Identify each part of the circle with one of these terms: circumference, radius, diameter, arc.
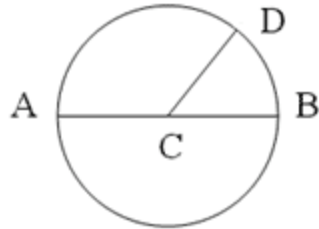
Line CD _____

Line AB _____

Line BD _____

Distance around the circle _____

109. Label each polygon with one of these terms: rectangle, rhombus, trapezoid, or parallelogram.

_____

1 cm

1 cm 1 cm

1 cm

_____

_____

_____
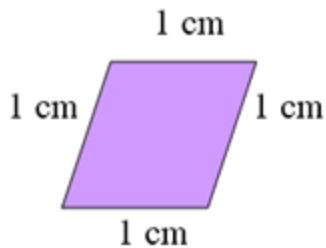
110. What kind of triangle is △ *XYZ*: scalene, isosceles, or equilateral?

_____
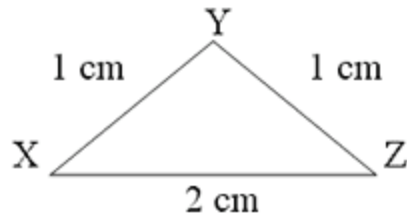
111. Label each polyhedron with one of these terms: cone, cylinder, cube, or rectangular prism.

_____

_____

_____

_____
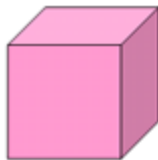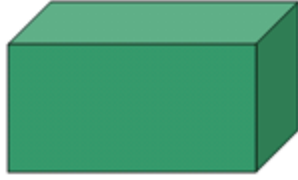
112. △ *ABC* is a right triangle. Find the length of side
AC.

_____
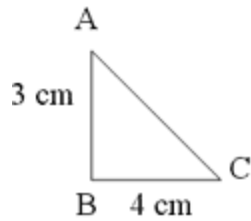
113. What is the perimeter of each figure below?

_____

_____
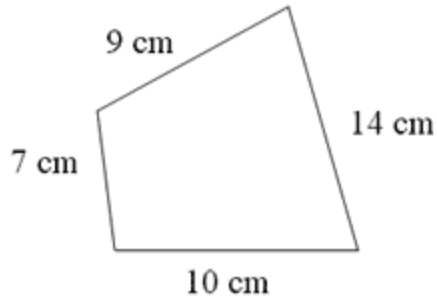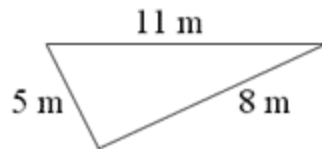
114. Find the circumference of a circle with a 28 inch
diameter. _____

115. Find the area of a 7 cm square. _____

116. Find the area of a triangle with a 12 m base and a height of 8 m. _____

117. What is the area of a circle that has a radius of 7 inches? _____

118. Find the area of the figure below.

13 cm

9 cm

4 cm

17 cm

_____
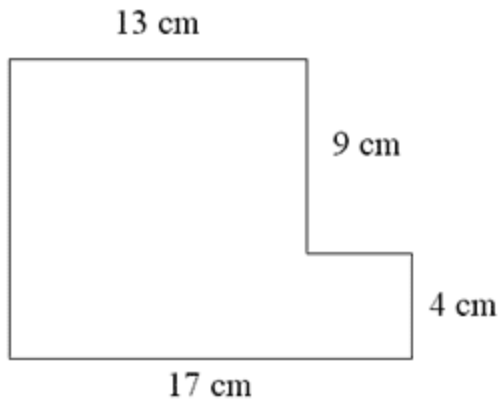
119. What is the radius of a circle with a 14-inch diameter?

_____

120. What is the volume of each figure below

2 cm

3 cm

7 cm   _____

10 m

6 m

_____
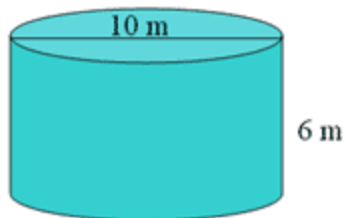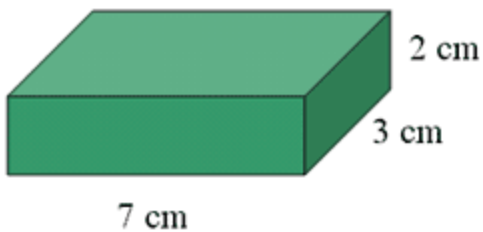
121. Compute the volume of a storage shed that has a square floor 3 meters on each side and is 3 meters high. _____

122. Lou made a round oak table that he wants to cover with glass. How many square feet of glass are needed if the distance across the center of the table is 4 feet? _____

123. The wall of Joan's living room measures 17 feet long and 8 feet high. To buy paint for the room, she needs to know the size of each wall. How large is the living room wall she measured? _____

124. Connell Park has three sides with lengths of 345 meters, 464 meters, and 500 meters. How far is it around the park? _____

125. If $n - 13 = 27$, then $n =$ _____

126. If $x + 2x + 3 = 9$, then $x =$ _____

127. If $5(b + 2) = 3(b + 10)$, then $b =$ _____

128. Twelve times a certain number is equal to 96. What is the number? _____

129. Mary is twice as old as Lucy. Together their ages add up to 54. How old is each of them?

Mary is _____
Lucy is _____

130. Use the graph below to answer the questions that follow.

Origins of Canadian Ethnic Groups

mixed background
26%

British Isles
28%

Asian, African, Arab
6%

Amerindian
2%

Other European
15%

French
23%
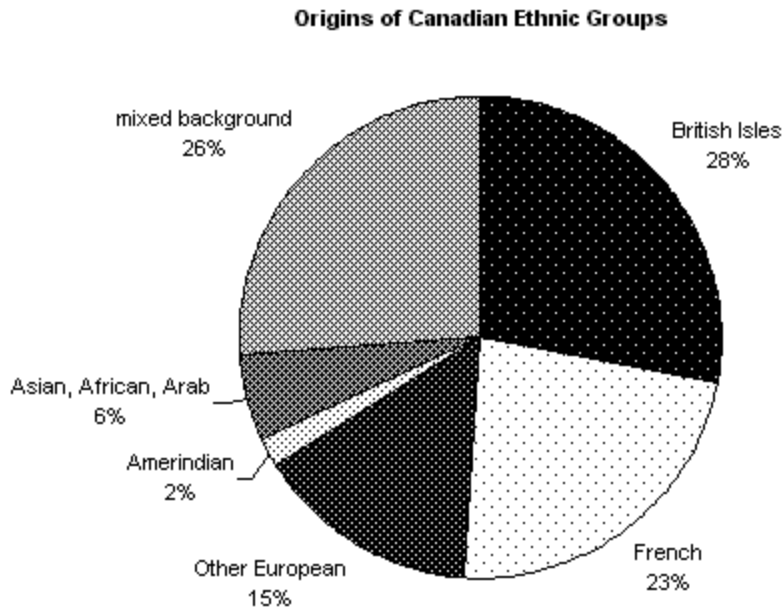
If you combined the Amerindian group with those of mixed background, the number of people in the combined group would be the same as which other group?

_____

What is the origin of the third largest ethnic group in Canada? _____

131. Use graph paper to plot the points given below on a coordinate graph.

A = (-2, 4)   B = (-2, 5)   C = (0, -5)   D = (4, 0)

132. Draw the graphed line that passes through each set of points below.

A = (-1, 3)   B = (3, -5)   C = (1, -1)   D = (2, -3)

Post-Test for Book 14018

Version 2

(Note – You will need graph paper to complete some questions on this test.)

1. 59126 people attended a football game at B.C. Place stadium. 32435 people attended a baseball game at the stadium. The stadium also held a concert that drew 15445. How many people attended the two sports events? _____

2.   8050
    x   6
    ‾‾‾‾‾‾

3. 132.9 x .094 = _____

4. Find the area of a triangle with a 6 cm base and a height of 4 cm. _____

5. Use graph paper to plot the points given below on a coordinate graph.

   A = (4, -2)   B = (5, 0)   C = (-5, 4)   D = (0, -2)

6. Paul earns 10 vacation days per year. He has used 4½ days this year. How many vacation days does he have left? _____

7. $7^3 - 2^3 =$ _____

8. You have 20 meters of fabric and need 2½ m for each costume. How many costumes can be made?

_____

9. Five students in Mr. Tim's class received marks of 83, 61, 48, 73, and 76 on their science projects. What was the average mark that this group of five earned on their science projects? _____

10. What is the volume of each figure below. ($\eth = 3.14$)

3 m

4 m

8 m   _____

20 cm

12 cm

_____
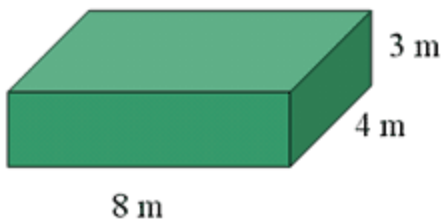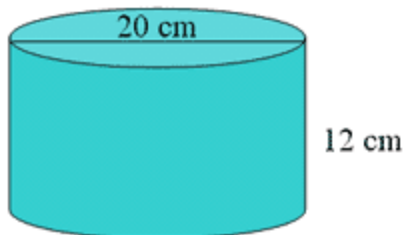
11. The graph below shows the number of baskets that Gord scored per game this season.

Baskets Scored per Game
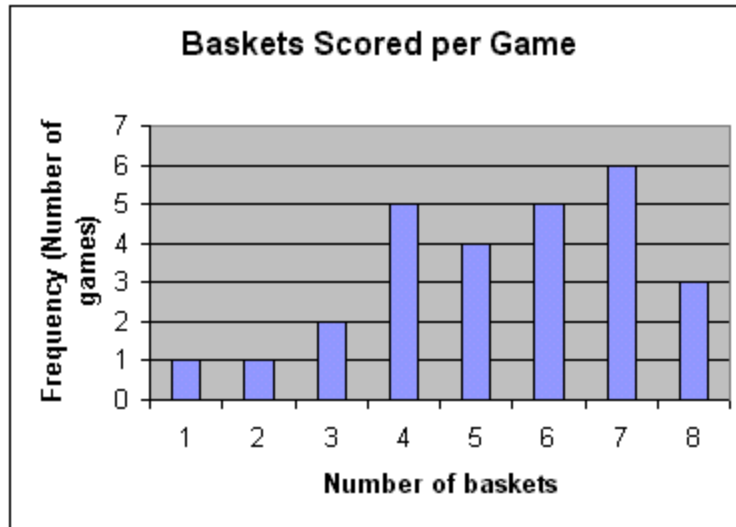
What was the greatest number of baskets scored in a game?

_____

What number of baskets was scored most frequently in a game? _____

12. $79821 \div 441 =$ _____

13. A credit card measures 8.5 cm by 5.5 cm. Find the area of the card. _____

14. Five is the square root of what number? _____

15. Draw the graphed line that passes through each set of points below.

A = (0, 1)   B = (3, 3)   C = (6, 5)   D = (-3, -1)

16. Write the expanded form.

$10^2 =$ _____

17. 570000 - 5070 = _____

18. A pet store must ship four puppies. The cage that they will use has a square floor 150 centimeters on each side and is 150 centimeters high. Find the volume of the cage in cubic centimeters.

_____

19. Mary is putting binding around the edges of a triangular scarf. The sides of the scarf measure 40 cm, 70 cm, and 40 cm. How much binding does she need? _____

20. 5½ ÷ 4 5/8 = _____

21. 2751 + 34072 + 68 = _____

22. What is the radius of a circle with a 42-centimeter diameter? _____

23. A boy reaches 50% of his adult height by the time he is two years old. Pete was 88.5 cm tall on his second birthday. What will his approximate adult height be?

_____

24. 70380 ÷ 30 = _____

25. What are the values of $\angle 2$, $\angle 3$, and $\angle 4$ in the drawing below?

$\angle 2 =$ _____

$\angle 3 =$ _____

$\angle 4 =$ _____
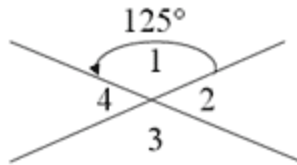
26. Change 29/4 into a mixed number. _____

27. Change 80.24 to a mixed number and reduce.

_____

28. $5 - (-2) - (-10) =$ _____

29. Write an algebraic expression for each word expression below.

Multiply a number by 5 and add 4   _____

A number decreased by two   _____

30.   96
       x 806

31. If you multiply Sara's age by 3, subtract 17 and then divide by 10, you get 10. How old is Sara?

_____

32. The greatest one-day use of electricity in Ontario occurred on January 17, 1982. On that day the temperature was –25ºC in Southern Ontario and -44ºC in Northern Ontario. What was the average of the temperatures? _____

33. Write 60% as a fraction. _____

34. Change 4/25 into a percent. _____

35. $22^4 \div 4^2 =$ _____ **36.** 200 L = _____ kl

37.   425666
        509528
      $\underline{+\ 419697}$

38. 500 x 302 = _____

39. Change 3/20 into a decimal. _____

40. 5844 ÷ 4 = _____ **41.** 1/23 x 67 = _____

42. $3^2 + 4^3 - 7^1 =$ _____

43.   596170
      $\underline{-\ 536809}$

44. Eight less than 7 times a certain number is 55. What is the number? _____

45. .02 − .007 = _____

46. A recipe requires 3½ cups of flour. The recipe is for 6, but you have to serve 12. How much flour do you need? _____

47. Write 8.2% as a decimal. _____

48. Find the area of the figure below.

_____
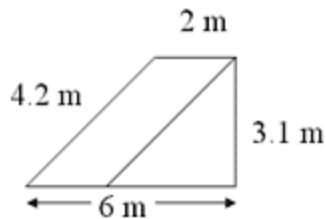
49. For every 105 L of sap collected, 3 L of maple syrup is produced. How much sap must be collected to produce 200 L of syrup? _____

50. What is the supplement of 116º? _____

51. Your brother lends you $42 and charges 6% interest. How much interest will you have to pay back on the original loan? _____

52. $\dfrac{z}{2} = \dfrac{495}{5}$ _____

53. 2.52 km = _____ m **54.** 6^3 x 8^2 = _____

55. Cathy and Peter went clothes shopping for their baby
daughter, Jenny. They bought 8 sleepers for $9.55
each and 2 T-shirts for $4.06 each. How much
money did they spend? _____

56. 7 8/11 + 13 5/12 = _____

57. What are the values of ∠5, ∠6, and ∠8 in the
drawing below?
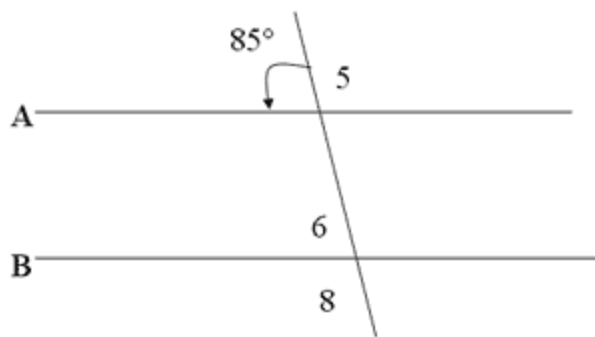
$$\angle 5 = \underline{\hspace{2cm}}$$

$$\angle 6 = \underline{\hspace{2cm}}$$

$$\angle 8 = \underline{\hspace{2cm}}$$

58. 97 + 4160 + 3 + 24085 = _____

59. Bill bought 3 bags of cookies for $1.96 each and 2
cases of pop for $6.99 each. He paid for his
purchases with a $20 bill. How much change did he
receive? _____

60. 3/5 + 1/6 = _____   **61.** 2 1/5 x 2/7 = _____

62. Change .007 into a percent. _____

63. What kind of triangle is △ XYZ: scalene, isosceles, or equilateral?

_____
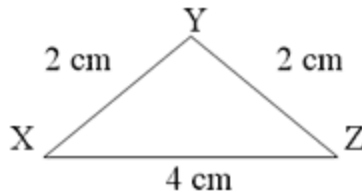
64. Joe scored 68 out of 85 on his math placement test. What percent does this represent? _____

65. Circle the prime numbers in the list below.

    31   62   73   54   85   34

66. 32 7/9 – 5 1/6 = _____

67. Factor each of the following numbers as a product of prime numbers.

    52 _____

   412 _____

68. Are the lines below parallel, perpendicular or both?

_____

69. A face-off circle has a radius of 4.6 m. Calculate the area of the face-off circle to the nearest tenth.

   _____

70. -76 ÷ -4 = _____

71. Find the mode using the numbers below.

    70   59   38   59   89   38   59

The mode is _____

72. 568.1 ÷ .23 = _____ **73.** 1927 ÷ .205 = _____

74. 1836.5 x .0061 = _____

75.   935748
  + 744649
  ‾‾‾‾‾‾‾‾‾

76. Sally is in an 8.2 km bike race. How many meters is this? _____

77. Label each polygon with one of these terms: rectangle, rhombus, trapezoid, or parallelogram.

_____

1 cm

1 cm   1 cm

1 cm

_____

_____

_____
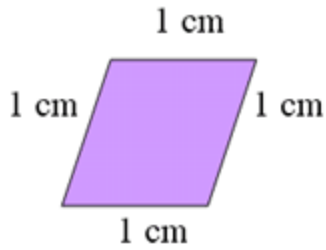
78. This graph shows the hourly temperature readings recorded on a spring day.

Hourly Temperature Readings

Temperature (Celsius degrees)

18
16
14
12
10
8
6
4
2
0

7:00 8:00 9:00 10:00 11:00 12:00 13:00

Time
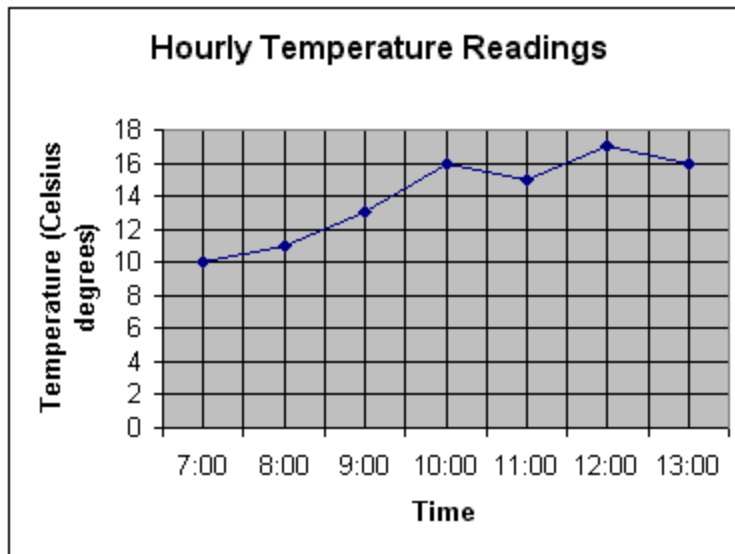
What is the highest temperature? _____

Between which two hours is the change the greatest?

_____

79. 7/8 − 5/7 = _____   **80.** 4² + 12² = _____

81. $4.08 + 62 + 12.633 =$ _____

82. What is .5% of 68? _____

83. $\triangle\ ABC$ is a right triangle. Find the length of side AC.

```
        A
6 m    /|
      / |
     /  |
    /___|  C
   B  8 m
```

_____
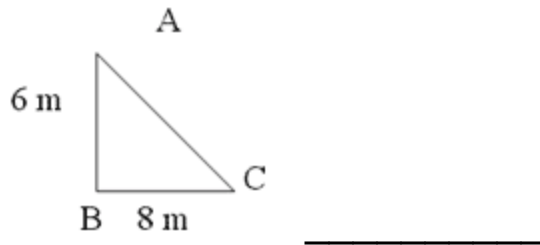
84. Jupiter is the largest planet in our solar system. Its diameter is about 11 times that of Earth. The diameter of Earth is about 12680 kilometers. What is the diameter of Jupiter? _____

85. On a hike, Grant takes 12 steps for every 15 steps that Nancy takes. What is the ratio of Nancy's steps to Grant's? _____

86. What is the complement of 41°? _____

87. $26.373 + 1 + 9.85 =$ _____

88. $7/11 + 3/11 =$ _____

89. $34008 \div 312 =$ _____

90. One kangaroo jump is about 2.5 m long. How many jumps would a kangaroo make in traveling 62.5 m?

_____

91.   50660
       x 251

92. $7 \div 1\ 8/9 =$ _____

93. Find the area of a 6 m square. _____

94. If $6x + 10 + 3x = 82$, then $x =$ _____

95. What is the perimeter of each figure below?

7 m

12 m

5 m

8 m

_____

12 cm

6 cm   9 cm

_____
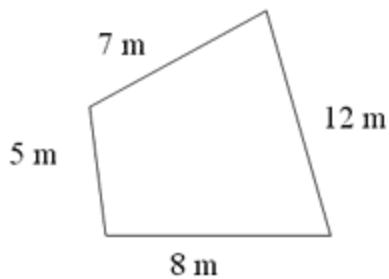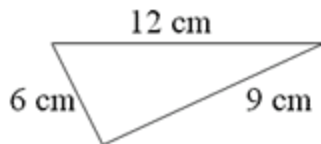
96. $79813 \div 28 =$ _____

97. Jim earns $7.80 per hour. Last week he earned $214.50. How many hours did he work?

_____

98. 20% of what number is 448? _____

99. At 8:00 p.m., the temperature was 7 degrees Celsius. By 11:00 p.m., the temperature was -15 degrees Celsius. How many degrees did the temperature drop? _____

100. Make the equivalent fraction: $\frac{5}{17} = \frac{?}{68}$ _____

101. Al made 128 dozen muffins at the bakery in one day. If each muffin tin held 2 dozen, how many tins of muffins did he make? _____

102. What is the area of a circle that has a radius of 3 centimeters? _____

103. What is the reticol of 5/8? _____

104. 2.3 - .9861 = _____

105. 456115 - 97683 = _____

106. (-7) + (9) + (-8) = _____

107. –4 x 5 x 2 = _____

108. Sam had a bank balance of $6509.27 on November 10th. On November 16th, Sam made a withdrawal of $258.61. What was his new balance after the withdrawal? _____

109. Reduce 16/38 to its lowest terms. _____

110. 5 7/8 x 3 3/4 = _____

111. Use the graph below to answer the questions that follow.

Canada's Area by Regions

Eastern Canada 6%
Central Canada 26%
Northern Canada 39%
Western Canada 29%
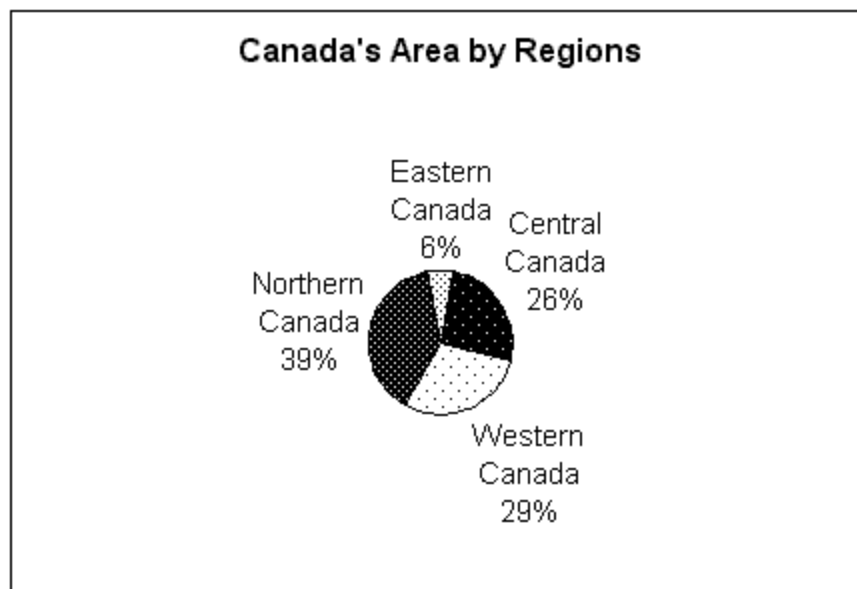
Which region has the greatest area? _____

The area of Canada is about 9922330 km². What is the area of Eastern Canada? _____

112. What percent of 1000 is 100? _____

113. According to a study of whale populations in 1700, the total population of beluga, humpback, gray, and blue whales was 383000. Today the total population of these four species has dropped to 62700. How much has the population decreased? _____

114. What is the square root of 64? _____

115.   558872
     273275
     985236
  + 684529

116. Find the median using the numbers below.

    88   58   38   19   28   69   7

The median is _____

117.   540000
  - 285423

118. 71 g = _____ mg

119. If $n - 32 = 71$, then $n =$ _____

120. A recipe uses 2¼ cups of flour, 1½ cups of sugar and ¼ cup of nuts. If you poured everything into a

measuring cup, how big would it have to be?

_____

121. Identify each part of the circle with one of these terms: circumference, radius, diameter, arc.
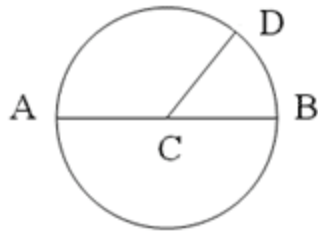
Line CD _____

Line AB _____

Line BD _____

Distance around the circle _____

122. If $3(b + 10) = 5(b + 2)$, then $b =$ _____

123. Identify each of the angles below as acute, obtuse, right, straight, complete, or reflex.

_____   _____
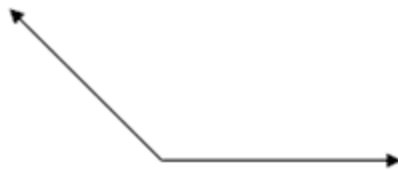
124. Label each polyhedron with one of these terms: cone, cylinder, cube, or rectangular prism.

_____

_____

_____

125. Find the circumference of a circle with a 39 centimeter diameter. _____

126. Round off .7485 to the nearest hundredth. _____

127. 6^5 x 6^2 x 6^3 = _____

128. 5203 x 6004 = _____

129. A fruit grower has 37 rows of pear trees each containing 29 trees. He estimates each tree will yield 25 baskets of pears. How many baskets will be needed? _____

130. Circle the ratio that is equivalent to 5:9.

5:13   27:15   3:9   10:18   9:5

131. $7/9 - 4/9 =$ _____

132. Solve each of the following.

$56 + 8 \div 2 =$ _____

$842 - 140 \times 5 =$ _____

$(30 - 15) \div 3 =$ _____

Post-Test for Book 14019

(Note – You will need graph paper to complete some questions on this test.)

1. What is the total cost of a $48 set of tools, a $34 wheelbarrow, and a $280 lawn mower? _____

2. Jill purchased a new sweater for $20. If she pays with a fifty dollar bill, how much change will she receive? _____

3. Kate's car gets 58 kilometers per liter during highway driving. On a cross-country trip, how far can Kate's car go on a full tank of 65 liters? _____

4. Bedell Bus Company is busing 329 students to a music conference. If each bus holds a maximum of 38 students, how many buses will be needed? _____

5. Each Monday through Friday, Mary delivers a newspaper to each of her 74 customers. Last weekend she delivered a total of 114 additional papers. How many papers did Mary deliver last week? _____

6. Change 32/12 into a mixed number. _____

7. Make the equivalent fraction: $\frac{3}{4} = \frac{?}{44}$ _____

8. From Will's house to Brown's Grocery, it is 16 ¾ miles. From Lisa's house to Brown's Grocery, it is 8   miles to the Corner Grocery. How far does Lisa live from Will? _____

9. Reduce 4/200 to its lowest terms. _____

10. 5.22 mm = _____ m   **11.** 71 g = _____ kg

12. 6 L = _____ ml

13. Change 2/5 into a decimal. _____

14. 7 + 4.5 + 2.125 = _____

15. 2.875 + 1 + 0.25 = _____

16. 12 – 9.625 = _____   **17.** 7.4 – 5.875 = _____

18. 0.25 x 0.016 = _____

19. 0.0027 x 8 = _____

20. 9.8 ÷ 1000 = _____ **21.** 279 ÷ 1.8 = _____

22. The five members of Shoeless Joe Jackson's family each bought a pair of shoes at Sam's Shoe Mart. If the shoe prices were $15, $25, $18, $20, and $27, what was the mean cost of the family's shoes? _____

23. 8/12 + 6/12 = _____ **24.** 5/6 + 3/4 = _____

25. 14 3/5 + 11 3/4 = _____

26. 13/16 – 9/16 = _____

27. 12 – 11/16 = _____ **28.** 23 1/3 – 14 4/5 = _____

29. 3/8 x 4/6 = _____ **30.** 5/6 x 18 = _____

31. 2 3/4 x 5 1/4 = _____ **32.** 3 ÷ 4 1/2 = _____

33. 4 2/3 ÷ 2 1/12 = _____

34. Change 2036.8 to a mixed number and reduce.

_____

35. Round off 27.00639 to the nearest thousandth.

_____

36. Write 6% as a fraction. _____

37. Change 7/10 into a percent. _____

38. Write 0.1% as a decimal. _____

39. Change 4.5 into a percent. _____

40. What percent of 16 is 12? _____

41. What is 5.5% of 50? _____

42. 36 is 20% of what number? _____

43. Find the mode using the numbers below.

1400   2000   1400   1550   1850

The mode is _____

44. Find the median using the numbers below.

33   28   26   17   38   35   31   24

The median is _____

45. What is the recipricol of 3/8? _____

46. Circle the ratio that is equivalent to 12:8.

7:3   24:9   4:1   3:2   8:12

47. (-2) - (-3) – (-2) = _____

48. 2 - (-4) + 6 = _____

49. –6 x 3 x 1 = _____   **50.** -62 ÷ -2 = _____

51. Write an algebraic expression for each word expression below.

A number t subtract 12   _____

A number s divided by 5   _____

r minus 4   _____

52. Solve each of the following.

3 - 9 ÷ 3 = _____

2 x 13 - 7 + 2 = _____

(8 + 9) x (5 − 3) ÷ 2 = _____

53. $\dfrac{15}{16} = \dfrac{x}{64}$ _____

54. Are the lines below parallel, perpendicular or both?

_____
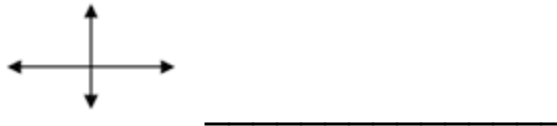
55. Identify each of the angles below as acute, obtuse, right, straight, complete, or reflex.

_____   _____
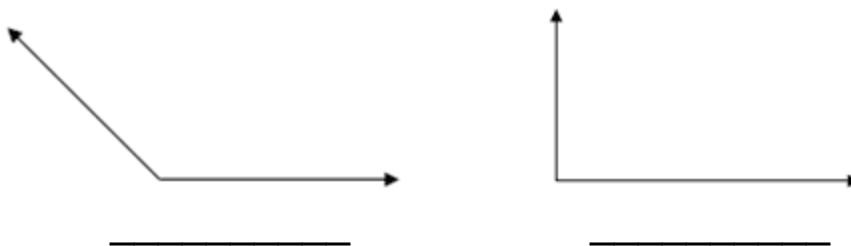
56. What is the complement of 41º? _____

57. What is the supplement of 83°? _____

58. What are the values of ∠2, ∠3, and ∠4 in the drawing below?

∠2 = _____

∠3 = _____

∠4 = _____
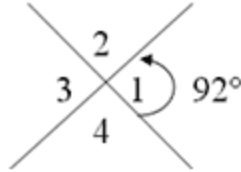
59. What are the values of ∠5, ∠6, and ∠8 in the drawing below?

∠5 = _____

∠6 = _____

∠8 = _____
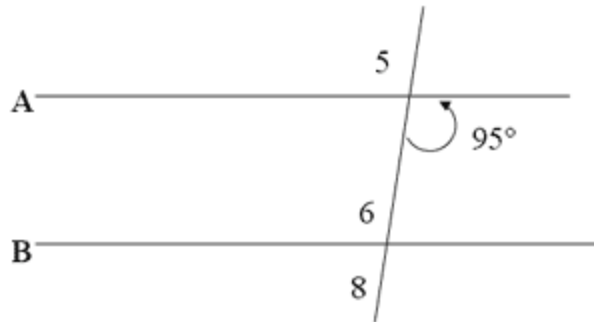
60. Identify each part of the circle with one of these terms: chord, radius, diameter, arc.
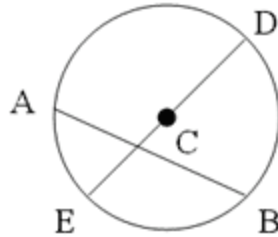
Line CD _____

Line AB _____

Line BD _____

Line DE _____

61. Label each polygon with one of these terms: hexagon, square, trapezoid, or parallelogram.

_____

1 cm

1 cm   1 cm

1 cm

_____

_____

_____
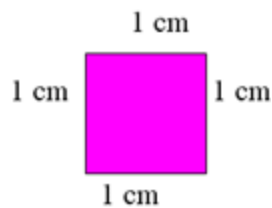
62. What kind of triangle is △ *XYZ*: scalene, isosceles, or equilateral?

1 cm   1 cm

X   Z
1 cm

_____
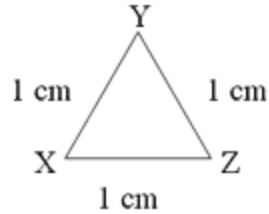
63. Label each polyhedron with one of these terms: cone, cylinder, cube, or sphere.

_____

_____

_____

_____

64. △ *ABC* is a right triangle. Find the length of side AC.

A

10 cm

C

B   8 cm

_____

65. What is the perimeter of each figure below?

7 m

4 m

6 m

_____

12 cm

6 cm   7 cm

5 cm   3 cm

_____
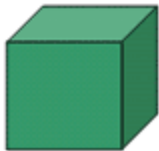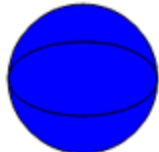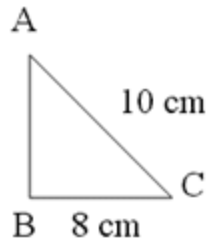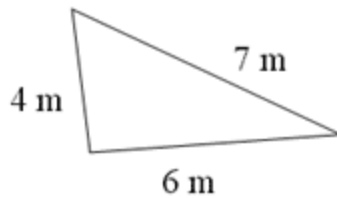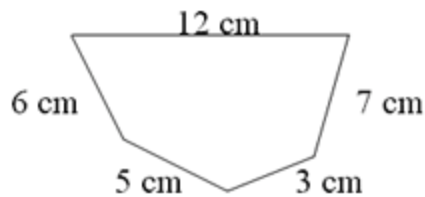
66. Find the circumference of a circle with a diameter of 7 feet. _____

67. Find the area of a rectangle that is 11 meters long and 4 meters wide. _____

68. Find the area of a triangle with a 9 cm base and a height of 5 cm. _____

69. What is the area of a circle that has a radius of 21 cm?

_____

70. Find the area of the figure below.

12 ft

4 ft

5 ft

19 ft

_____
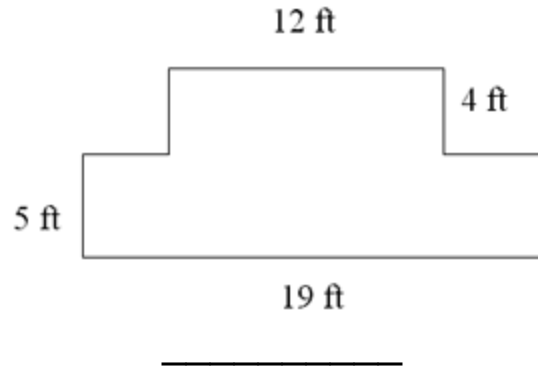
71. What is the diameter of a circle with a 2 ½ centimeter radius? _____

72. What is the volume of each figure below?
Let ð = 3 1/7

4 yd

4 yd

4 yd

_____

20 ft

r = 14 ft

_____
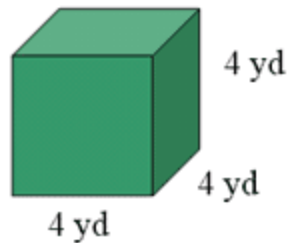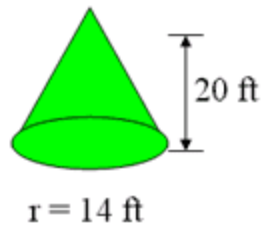
73. If $7x = 147$, then $x =$ _____

74. If $3z + 6z + 7 = 29$ -4, then $z =$ _____

75. If $3(y - 4) = 2(y + 3)$, then $y =$ _____

76. Eight times a number plus 9 is equal to 73. What is the number? _____

77. Joe has money in a savings account. If he adds $50 a month for 6 months, he will have three times the amount he has now, not counting the interest. How much is in Joe's account now? _____

78. Use graph paper to plot the points given below on a coordinate graph.

A = (3, 1)   B = (4, -1)   C = (-3, -2)   D = (-5, 3)

79. Draw the graphed line that passes through each set of points below.

A = (2, 1)   B = (4, 2)   C = (-2, -1)   D = (-4, -2)

80. How many lines of symmetry can be drawn through an equilateral triangle? _____

81. In the figure below, LM = 36 km, MN = 80 km, and PN = 20 km.

L

O

M   N

P
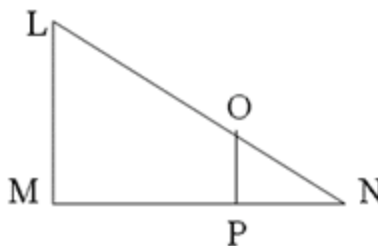
What is the length of OP? _____

82. In the figure below, RS = 18 m, ST = 6 m, and TU = 4 m.

Q   R

S

T   U
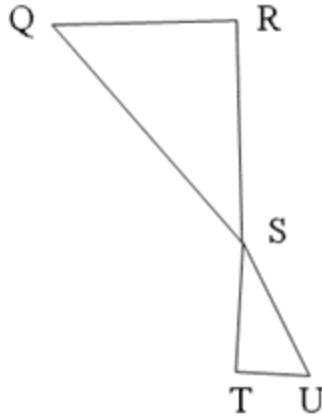
What is the length of QR? _____

83. At 2:00 p.m., a 6-foot tall man cast an 8-foot shadow. If, at the same time, a nearby tree cast a 100-foot shadow, how high is the tree? _____

84. Use the map below and determine the direct distance (*d*) between Centreville and Florenceville.

Centreville

5 mi.   *d*

12 mi.   Florenceville

_____
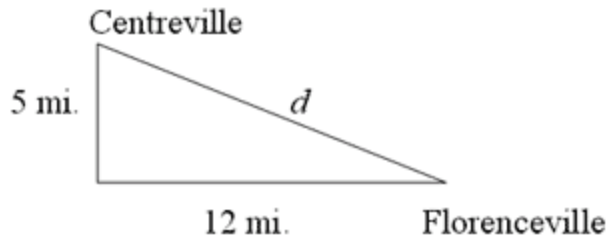
85. Solve each of the following inequalities.

2*d* 8 _____

$3c - c < 6$ _____

$2z - 6 > -6$ _____

$8 + b \quad 12$ _____

86. Simplify each of the following.

$4a + 2b + 6a - 1b =$ _____

$3p - 4p + 6q - 2q + 1 =$ _____

$3c - 8d + 9c + 2d =$ _____

87. If three times a number is added to 4, the result is less than 2 times that same number added to 8. What is the solution? _____

88. Jane receives a weekly salary of $727 plus earns a 19% commission on sales. What will the monthly gross earnings be if total sales for the month are $16,132?

_____

89. Bill worked 25 hours last week at an hourly rate of $11. Find the gross pay. _____

90. What is the simple interest on a $2,000 loan with an annual interest rate of 12% for 2 years? _____

91. Find the simple interest and amount owed on a loan of $700 for 3 months at 11%.
amount _____

interest _____

92. Find the amount and the interest earned on $800 deposited for 3 years at 12% when the interest is compounded annually.

amount _____

interest _____

93. Greg worked the following hours during the week:
Monday 6 hours
Tuesday 8 hours
Wednesday 2 hours
Thursday 9 hours
Friday 9 hours

Calculate the gross pay at an hourly rate of $11 plus time-and-a-half for any work hours over 40 per week. _____

94. What is the slope of a line with points (1,2) and (3,6)? _____

95. Amy bought 4 raffle tickets at a community fundraiser. If 200 tickets are sold, what is the probability that one of Amy's tickets will be the winner? _____

Post-Test for Book 14019

Version 2

(Note – You will need graph paper to complete some questions on this test.)

1. $21 - 12/17 =$ _____   **2.** $3/4 \times 15 =$ _____

3. Reduce 16/34 to its lowest terms. _____

4. Draw the graphed line that passes through each set of points below.

A = (-5, 7)   B = (2, -2)   C = (-1, -4)   D = (7, 2)

5. Art budgeted $3600 for rent, $780 for utilities and $1800 for food for a year. How much is his monthly budget for these expenses? _____

6. Find the area of a triangle with a 6 m base and a height of 7 m. _____

7. $792 \div 8.8 =$ _____

8. If $4x = 772$, then $x =$ _____

9. Simplify each of the following.

$2a + 6b + 1a - 4b =$ _____

$4p - 6p + 2q - 1q + 3 = $ _____

$8c - 9d + 2c + 3d = $ _____

10. What are the values of $\angle 2$, $\angle 3$, and $\angle 4$ in the drawing below?

$\angle 2 = $ _____

$\angle 3 = $ _____

$\angle 4 = $ _____
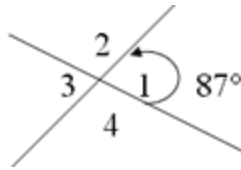
11. Change 23/21 into a mixed number. _____

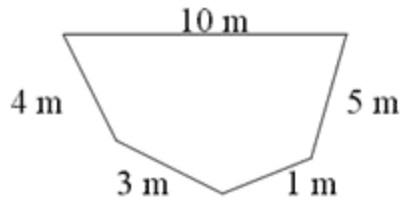**12.** 16 1/3 − 12 7/8 = _____   **13.** $8.9 \div 1000 = $ _____

14. $\dfrac{11}{14} = \dfrac{x}{56}$ _____

15. At a school board meeting, the ratio of parents to teachers is 3:2. If there are 72 parents at the meeting, how many teachers are there? _____

16. 1/2 + 4/5 = _____   **17.** 36 mg = _____ g

18. What is the perimeter of each figure below?

      _____

      _____
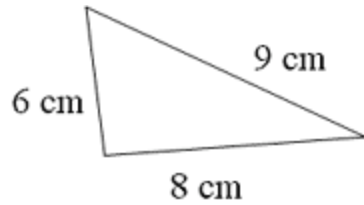
19. Write an algebraic expression for each word expression below.

A number t subtract 21   _____

A number s divided by 7   _____

r minus 6   _____

20. Find the area of a rectangle that is 14 centimeters long and 8 centimeters wide. _____

21. Carl filled up the gas tank on his delivery truck. The total cost of the gas is $28. If he pays with a fifty dollar bill, how much change will he receive?

_____

22. Solve each of the following.

3 + 4 x 2 = _____

100 - 3 x 24 = _____

(908 + 23 x 48) ÷ 2 + 687 = _____

23. Find the median using the numbers below.

32   82   61   73   83   53   12   43

The median is _____

24. 4/9 x 5/7 = _____

25. Use graph paper to plot the points given below on a coordinate graph.

A = (1, 4)   B = (-1, -3)   C = (-2, -5)   D = (3, 3)

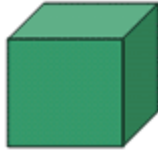**26.** Circle the ratio that is equivalent to 8:3.
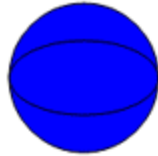
7:3   24:9   4:1   3:2   8:12

27. If five times a number is added to 6, the result is less than 4 times that same number added to 10. What is the solution? _____

28. Change 5.4 into a percent. _____

29. What is the diameter of a circle with a 5½ meter radius? _____

30. Label each polyhedron with one of these terms: cone, cylinder, cube, or sphere.

_____

_____

_____

_____

31. –5 x 2 x 2 = _____

32. Write 0.2% as a decimal. _____

33. For a painting job, Leo spent 6 1/3 hours preparing the rooms to be painted and 4¾ hours doing the painting and cleanup. How many hours did he spend on the job? _____

34. What is the complement of 14°? _____

35. 8.751 + 2 + 0.52 = _____

36. Round off 70.06392 to the nearest thousandth.

_____

37. 2.25 m = _____ km

38. Ed, Rita, and Lily are sharing equally the $126 profit from their yard sale. How much will each person receive? _____

39. 3 4/5 x 1 1/2 = _____

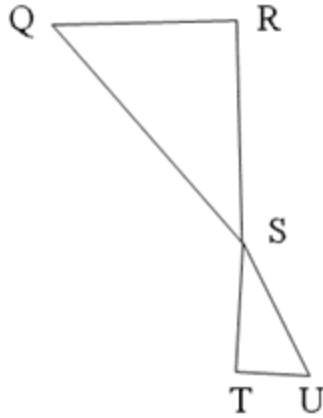**40.** What is the area of a circle that has a radius of 12 m?

_____

41. What is the simple interest on a $1,100 loan with an annual interest rate of 8% for 4 years? _____

42. Find the area of the figure below.

_____
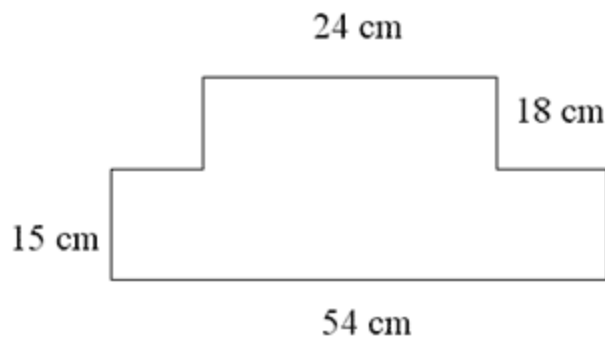
43. Change 3/4 into a decimal. _____

44. In the figure below, QR = 12 m, ST = 6 m, and TU = 4 m.

What is the length of RS? _____

45. Find the simple interest and amount owed on a loan of $2500 for 6 months at 12%.

amount _____

interest _____
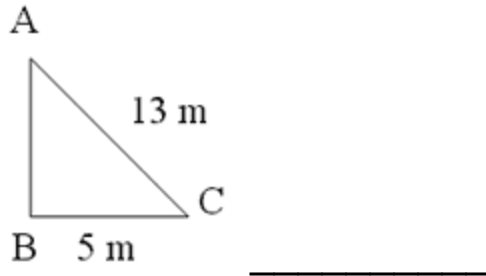
46. Solve each of the following inequalities.

$3d \geq 9$ _____

$4c - 2c < 7$ _____

$3z - 7 > \text{-}5$ _____

$9 + b \leq 13$ _____

47. △ *ABC* is a right triangle. Find the length of side AC.

A

13 m

C

B   5 m   _____

51. Bill worked 36 hours last week at an hourly rate of $8.
Find the gross pay. _____

52. If $4(y - 2) = 3(y + 3)$, then $y =$ _____
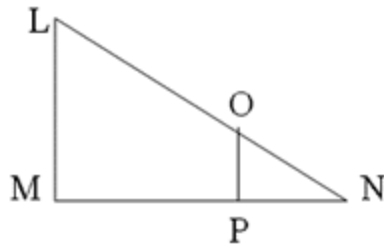
53. $29 - 6.251 =$ _____

54. During lunch one day, a café sold 8 more turkey
sandwiches than ham sandwiches. If there were 32
sandwiches sold in all, how many were ham
sandwiches? _____

55. $4 - (-6) + 2 =$ _____

56. EZ Video rented 169 videos on Thursday and 683
videos on Friday. Find the total rentals for the two
days. _____
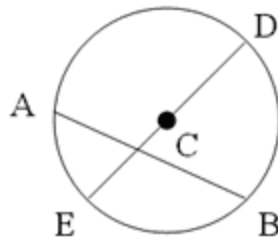
57. Make the equivalent fraction: $\dfrac{4}{5} = \dfrac{?}{45}$ _____

58. In the figure below, LM = 36 m, MN = 80 m, and OP =
9 m.

What is the length of PN? _____

59. Identify each part of the circle with one of these terms: chord, radius, diameter, arc.

Line CD _____

Line AB _____

Line BD _____

Line DE _____

60. Find the circumference of a circle with a diameter of 8 meters. _____

61. $8.7 - 5.745 =$ _____

62. What is the probability of drawing a yellow jelly bean from a bag containing 54 jelly beans of which 36 are yellow? _____

63. 7 kl = _____ L

64. What percent of 80 is 16? _____

65. Sally worked the following hours during the week:
   Monday 9 hours
   Tuesday 7 hours
   Wednesday 10 hours
   Thursday 7 hours
   Friday 8 hours

   Calculate the gross pay at an hourly rate of $7 plus time-and-a-half for any work hours over 40 per week. _____

66. Find the amount and the interest earned on $1400 deposited for 3 years at 16% when the interest is compounded annually.

   amount _____

   interest _____

67. 4 + 5.2 + 1.257 = _____

68. What is the recipricol of 4/9? _____

69. 0.0078 x 2 = _____   **70.** -84 ÷ -3 = _____

71. Write 9% as a fraction. _____

72. The attendance figures for a community theater production for four nights were 135, 174, 128, and 215. Find the average attendance? _____
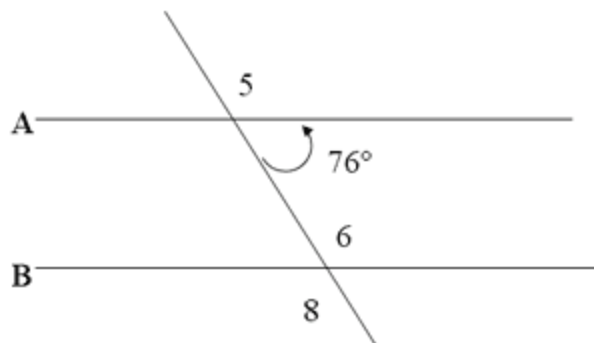
73. Label each polygon with one of these terms: hexagon, square, trapezoid, or parallelogram.

_____

_____

_____

74. What are the values of ∠5, ∠6, and ∠8 in the drawing below?

5

A

76°

6

B

8

$\angle 5 =$ _____

$\angle 6 =$ _____

$\angle 8 =$ _____

75. The pole below is perpendicular to the ground. How many feet of wire are needed to reach from the top of the pole to Point A?
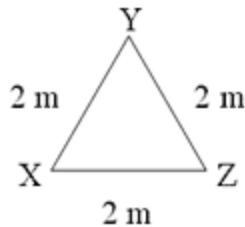
24 ft.

10 ft   A

_____
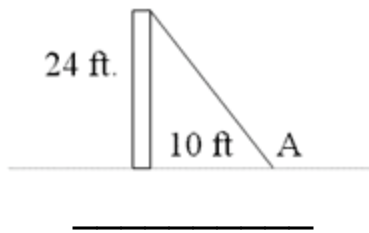
76. If $6z + 7z + 2 = 96 - 3$, then $z =$ _____

77. Change 17/20 into a percent. _____

78. What is the slope of a line with points (2,3) and (6,1)?

_____

79. What kind of triangle is $\triangle$ XYZ: scalene, isosceles, or equilateral?

Y

2 m   2 m

X   Z
    2 m

_____

80. 0.51 x 0.062 = _____

81. Are the lines below parallel, perpendicular or both?

_____

82. 4 ÷ 1 2/3 = _____

83. A company spends $913 per week on advertising. How much will the company spend in 52 weeks?

_____

84. (-3) - (-2) – (-4) = _____

85. What is 8.75% of 575? _____

86. 63 is 30% of what number? _____

87. Find the mode using the numbers below.

2800   3025   3025   2800   3025

The mode is _____

88. How many lines of symmetry can be drawn through a rectangular prism? _____

89. A real estate agent sold a house for $43500 and was paid a commission of 7%. What was the amount of the agent's commission? _____

90. Change 3068.2 to a mixed number and reduce.

_____

91. Identify each of the angles below as acute, obtuse, right, straight, complete, or reflex.

_____   _____

92. 2 1/7 ÷ 1 1/2 = _____

93. What is the supplement of 38°? _____

94. The sum of a number and twice that number is 15. What is the number? _____

95. What is the volume of each figure below? Let π = 3.14

8 m

8 m

8 m

_____

10 cm

r = 24 cm

_____