

## 7/8 Grade

**Find each sum.**

1)  $28.696 + 14.06$

2)  $43.6 + 4.7$

3)  $32.7 + 0.54$

4)  $11.3 + 36.8$

**Find each difference.**

5)  $11.9 - 0.8$

6)  $2.8 - 2.2$

7)  $10.4 - 0.9$

8)  $6.8 - 3.6$

**Find each product.**

9)  $3.8 \times 3.8$

10)  $3.1 \times 2.6$

11)  $13.9 \times 5.2$

12)  $4.2 \times 9.9$

**Find each quotient.**

13)  $4.5 \div 7.5$

14)  $4.5 \div 6$

15)  $1.8 \div 0.1$

16)  $2.6 \div 0.1$

**Each number is divisible by which of the following: 2, 3, 5, 9, 10?**

17) 55

18) 61

19) 74

20) 81

**Evaluate each expression.**

$$21) \frac{3}{2} - \frac{6}{5}$$

$$22) 2\frac{2}{3} + \frac{2}{3}$$

$$23) 2\frac{1}{2} + 3\frac{1}{2}$$

$$24) 7 - \frac{7}{8}$$

**Find each difference.**

$$25) 1\frac{1}{6} - \frac{4}{3}$$

$$26) 4\frac{1}{2} - 3\frac{1}{2}$$

$$27) \left(-\frac{5}{3}\right) - \frac{4}{3}$$

$$28) \left(-\frac{3}{2}\right) - 3\frac{1}{2}$$

**Find each product.**

$$29) 2 \times \frac{7}{8}$$

$$30) \frac{3}{2} \times \frac{2}{5}$$

$$31) \frac{6}{5} \times \frac{6}{7}$$

$$32) 2\frac{1}{4} \times \frac{7}{10}$$

**Find each quotient.**

$$33) 2 \div 5\frac{3}{7}$$

$$34) 1\frac{1}{6} \div 5\frac{1}{2}$$

$$35) \frac{2}{3} \div 5\frac{5}{6}$$

$$36) \frac{2}{9} \div \frac{4}{3}$$

**Simplify each. Write your answer as a mixed number when possible.**

$$37) \frac{18}{63}$$

$$38) \frac{48}{84}$$

39)  $\frac{18}{24}$

40)  $\frac{90}{126}$

41)  $\frac{20}{160}$

42)  $\frac{30}{36}$

**Write each as a decimal. Use repeating decimals when necessary.**

43)  $\frac{2}{5}$

44)  $\frac{3}{4}$

45)  $5\frac{1}{2}$

46)  $2\frac{1}{2}$

**Write each as a percent. Use repeating decimals when necessary.**

47)  $\frac{1}{250}$

48)  $\frac{97}{500}$

49)  $\frac{23}{33}$

50)  $\frac{71}{100}$

**Find the GCF of each.**

51) 48, 40

52) 50, 30

53) 26, 38

54) 36, 24

**Find the LCM of each.**

55) 30, 18

56) 28, 35

57) 4, 31

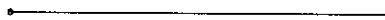
58) 15, 25

**Draw an angle with the given measurement.**

59)  $105^\circ$

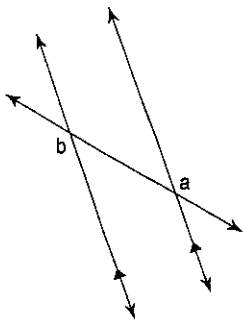


60)  $145^\circ$

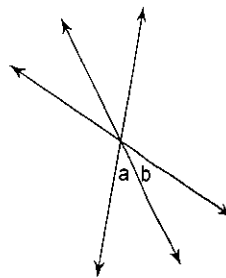


**Name the relationship: complementary, supplementary, vertical, adjacent, or alternate exterior.**

61)

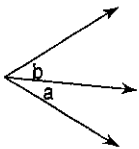


62)

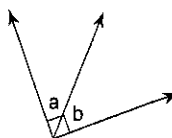


**Name the relationship: complementary, supplementary, vertical, or adjacent.**

63)

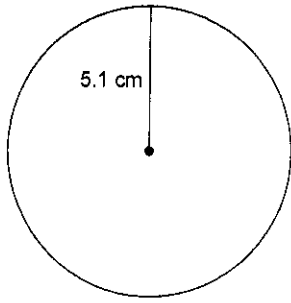


64)

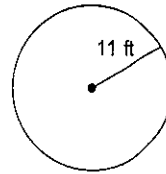


Find the circumference of each circle. Round your answer to the nearest tenth.

65)

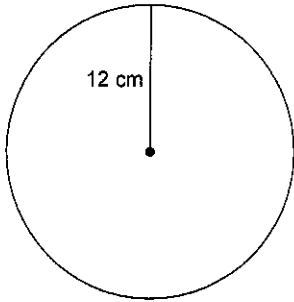


66)

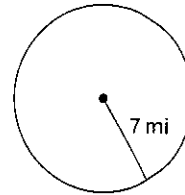


Find the area of each. Round your answer to the nearest tenth.

67)

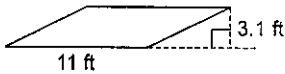


68)

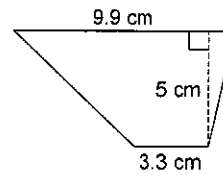


Find the area of each.

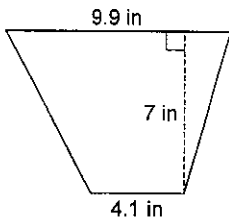
69)



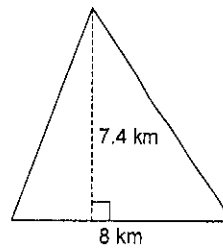
70)



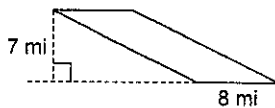
71)



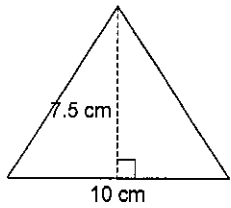
72)



73)



74)

**Simplify each expression.**

75)  $9v - 5v$

76)  $-10n + 3n$

77)  $7m + 6m$

78)  $7(5 + 10b)$

79)  $5(b - 2)$

80)  $-8(1 + b)$

81)  $2 + 8(4p + 4)$

82)  $-7(-5 - 9a) + 10$

**Solve each equation.**

83)  $-35 = x - 17$

84)  $n + 4 = 21$

85)  $-6r = 66$

86)  $-8r = 112$

87)  $8 = 14 + n$

88)  $\frac{n}{5} = 2$

89)  $-3 + x = 5$

90)  $-23 = -10 + x$

91)  $-17x = -323$

92)  $n - 3 = -18$

93)  $24 = x + 12$

94)  $v + 3 = -11$

95) A hungry elf ate 30 of your muffins. That was  $\frac{5}{6}$  of all of them! With how many did you start?

96) Your uncle gave you \$9 with which to buy a present. This covered  $\frac{3}{4}$  of the cost. How much did the present cost?

97) The wind blew away 9 of your muffins. That was  $\frac{3}{5}$  of all of them! How many are left?

98) Seven workers are hired to harvest potatoes from a field. Each is given a plot which is 6×8 feet in size. What is the total area of the field?

99) Last week Kathryn ran 38.7 miles, less than Mike. Kathryn ran 10.8 miles.. How many miles, did Mike run?

100) Julio spent \$19.45 on five toy cars. How much did each toy car cost?

**Write each as a decimal. Round to the thousandths place.**

101) 51%

102) 0.3%

103) 32.3%

104)  $\frac{7}{22}$

105)  $\frac{1}{120}$

106)  $\frac{3}{16}$

**Answer each question and round your answer to the nearest whole number.**

107) A 2 ft tall globe standing next to a statue casts a 1 ft shadow. If the statue casts a shadow that is 7 ft long, then how tall is it?

108) A map has a scale of 1 in : 12 mi. If Abbots Rise and Brisbane are 120 mi apart, then they are how far apart on the map?

109) A model train is 6 in tall. If it was built with a scale of 1 in : 3 ft, then how tall is the real train?