Name_____

Summer Math / Show work for each problem.

Date_____

Evaluate each expression.

1) $46 - (-45) - 19$

2) $(-24) + (-43) + (-35)$

3) $20 - 16 - (-50)$

4) $3 - 2 + 11$

5) $(-2) - 32 + 50$

6) $50 + 37 - 3$

7) $(-16) + 10 + 38$

8) $6 + (-21) - (-46)$

9) $(-3) - (-30) - (-24)$

10) $36 - 19 - 19$

11) $(-7) + 27 - (-36) - (-1)$

12) $27 + 27 - 45 - 64$

13) $(-66) - 91 + (-55) + 16$

14) $81 + (-66) - 45 - (-48)$

15) $(-2) + \left(-\dfrac{1}{5}\right)$

16) $\left(-\dfrac{7}{6}\right) + \dfrac{2}{5}$

17) $\left(-2\dfrac{7}{8}\right) - \left(-\dfrac{1}{6}\right)$

18) $\left(-\dfrac{7}{4}\right) + \left(-\dfrac{3}{2}\right)$

19) $2\dfrac{1}{5} - \left(-\dfrac{1}{2}\right)$

20) $\left(-\dfrac{9}{8}\right) - \dfrac{5}{6}$

21) $(1 + 2 + 3 - 2) \times 5$

22) $(15 \times 2) \div (2(5 - 2))$

23) $(2 + 2)(3 - (5 - 5))$

24) $(4 \times 6 + 16 \div 4) \times 2$

25) $2(3 - 3 \div 3) + 1$

26) $6(2 + 4) + 4 \times 6$

Solve each equation.

27) $x - (-4) = -57$

28) $a + (-67) = -68$

29) $\dfrac{x}{37} = -\dfrac{72}{37}$

30) $n - 84 = -107$

31) A stray dog ate 12 of your muffins. That was $\dfrac{3}{7}$ of all of them! With how many did you start?

32) Joe paid $3.40 for a sandwich. He now has $35.27. How much money did he have before buying the sandwich?

33) Lea was 4 years old six years ago. How old is she now?

34) Castel is cooking cookies. The recipe calls for 10 cups of sugar. He has already put in 9 cups. How many more cups does he need to put in?

35) After paying $2.96 for a salad, Kristin has $6.76. How much money did she have before buying the salad?

36) At a restaurant, Sumalee and her ten friends decided to divide the bill evenly. If each person paid $14.99, then what was the total bill?

Solve each equation.

37) $\dfrac{x}{5} + 9 = 5$

38) $4 + 5k = -61$

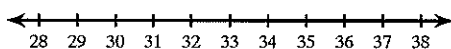39) $44 = 8x - 4$

40) $3n - 1 = 35$

41) $-4 = 2 + \dfrac{r}{3}$

42) $-8 + 5r = -48$

43) Mary spent $6 on a magazine and two candy bars. If the magazine cost $2, then how much was each candy bar?
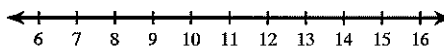
44) For a field trip 22 students rode in cars and the rest filled six buses. How many students were in each bus if 232 students were on the trip?

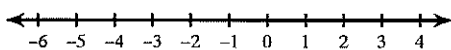**Solve each inequality and graph its solution.**
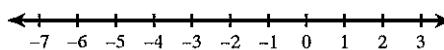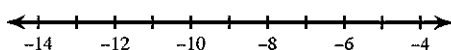
45) $5 \le \dfrac{p}{7}$

28 29 30 31 32 33 34 35 36 37 38

46) $m - 1 \ge 12$

6 7 8 9 10 11 12 13 14 15 16

47) $v - 13 > -16$

-6 -5 -4 -3 -2 -1 0 1 2 3 4

48) $v + 9 \le 9$

-7 -6 -5 -4 -3 -2 -1 0 1 2 3

49) $-2 > \dfrac{-3 + x}{5}$

-14   -12   -10   -8   -6   -4

50) $-3 > \dfrac{n}{4} - 4$

2 3 4 5 6 7 8 9 10 11 12
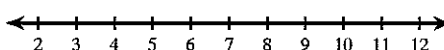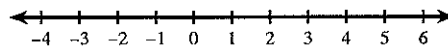
51) $4 - 8k > -76$
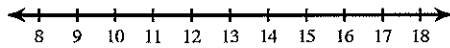
52) $\dfrac{x - 8}{2} \leq -5$

Solve each proportion.

53) $\dfrac{n}{3} = \dfrac{8}{10}$

54) $\dfrac{4}{x} = \dfrac{8}{7}$

55) $\dfrac{x}{10} = \dfrac{3}{6}$

56) $\dfrac{2}{8} = \dfrac{10}{m}$

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

57) Sumalee reduced the size of a photo to a height of 2 in. What is the new width if it was originally 9 in wide and 6 in tall?

58) A photo is 9 in wide and 12 in tall. If it is reduced to a height of 4 in, then how wide will it be?

59) A rectangle is 8 in wide and 6 in tall. If it is reduced to a width of 4 in, then how tall will it be?

60) The currency in Argentina is the Peso. The exchange rate is approximately 3 Pesos for every $1. At this rate, how many Pesos would you get if you exchanged $5?

61) Bill bought one tub of dried blueberries for $8. How many tubs can Jasmine buy if she has $24?

62) One package of strawberries costs $3. How many packages can you buy for $12?

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

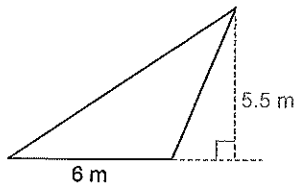63) $\dfrac{21}{25}$
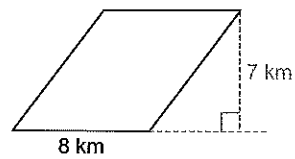
64) $3\dfrac{99}{100}$

Write each as a fraction.
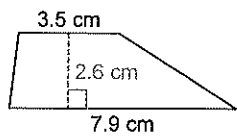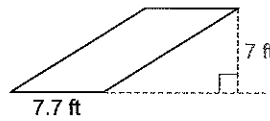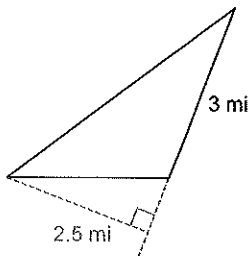
65) 0.84

66) 0.51

Find the area of each.

67)

5.5 m

6 m

68)

7 km

8 km

69)

3.5 cm

2.6 cm

7.9 cm

70)

7 ft

7.7 ft

71)

3 mi

2.5 mi

72)

0.8 m

1 m

2 m