Incoming 7th Grade Summer Packet

Name _____

Compare using <, >, or =

1) -4 ____ -2

2) |-9| ____ -10

3) |-3| ____ 3

Simplify the expression. Using a number line can be helpful

4) -13 + 15

5) -14 − 19

6) 28 ÷ (-7)

7) -11 · (-7)

8) For a class party, the student council purchases 30 balloons at $1.55 each. What is the total cost for all the

balloons?

Find the quotient. Round your answer to the nearest hundredth if necessary.

9) 2.1 ÷ 0.7

10) 1.28 ÷ 2.1

Find the sum or difference.

11) 14.3 − 7

12) 16 + 7.005

13) 19.23 + 5.7

14) 39.75 − 13.4

Find the value of the expression. Remember your order of operations

15) $\frac{4.25}{2} \cdot (0.3 - 0.21) + 7.3$

16) $19.5 - 27.1 + 32.4 \cdot 0.3 - 11.3$

Show all your work by doing long division

17) 2352÷3

18) 48÷6.8

Find the sum or difference

19) $\frac{9}{12} - \frac{3}{12}$

20) $\frac{1}{4} + \frac{5}{3}$

21) $2\frac{2}{7} + 4\frac{3}{10}$

22) $3\frac{4}{5} - \frac{4}{7}$

23) A map shows three hiking trails of lengths $14\frac{1}{2}\,miles, 12\frac{3}{5}\,miles, and\ 17\frac{7}{10}\,miles.$ You want to bike the entire

length of each trail. What is the total distance going to be?

Find the product or quotient

24) $\frac{3}{5} \cdot \frac{5}{6}$

25) $\frac{2}{5} \cdot 3\frac{1}{2}$

26) $2\frac{2}{5} \cdot 7\frac{1}{4}$

27) $4\frac{2}{5} \div 1\frac{3}{20}$

Graph the Inequality

28)   K > 4   29)   C ≤ -12   30)   M < 0

Write a ratio in three different ways

31)   In the United States, 93 million out of 98.2 million homes have at least one television

Write each ratio in two other ways and in simplest form if it is not already

32) $\frac{19}{17}$ 33)   24 : 100   34)   22 to 11

Find the Unit Rate or Unit Cost for each situation

35)   running 12.8 km in 4 minutes   36)   earning $95.00 in 7 hours

Solve each proportion

37) $\frac{9}{5} = \frac{n}{9}$ 38) $\frac{k}{12} = \frac{3}{36}$

39) $\frac{3.5}{d} = \frac{14}{15}$ 40) $\frac{y}{16} = \frac{1.4}{10}$

41)   A map with a scale of 1 in : 155 miles shows two cities are 4 inches apart. How many miles apart are the two

cities?

42)   A kid who is 30 inches tall casts a shadow that is 10 inches long. How tall is a nearby tree that casts a shadow that

is 60 inches long? Drawing a picture will help.

Graph the following points on the coordinate plane. Label the four Quadrants and the x and y axis.
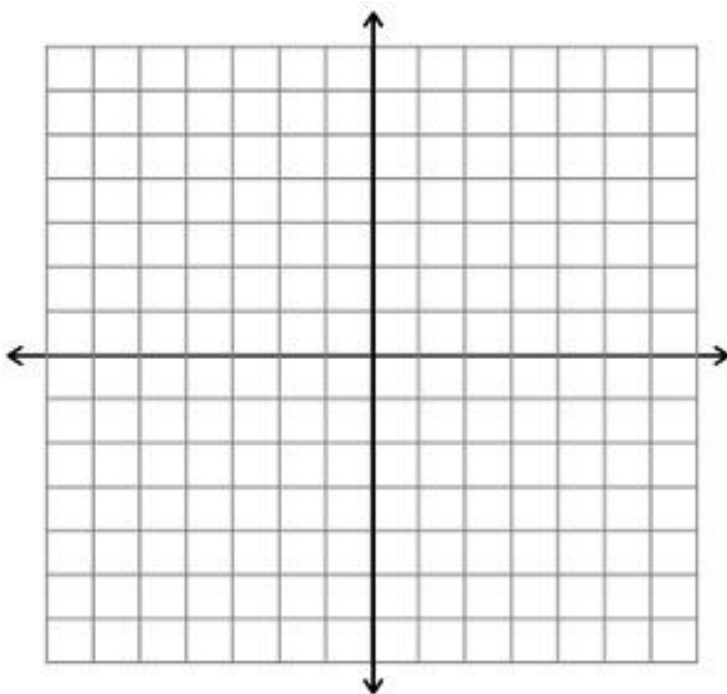
43) A (2, -3)

44) B (6, 1)

45) C (-3, 4)

46) D (-2, -5)

47) E (4, 0)

Evaluate each expression for n = 2, t = -4, and y = 8

48) 3n + 2t   49) 5y – 4n   50) 2(n + 3y)   51) ny – 6

Write the expression as a word phrase

52) 12*4 + 14   53) 2 – 5*x

Solve each equation. Show all steps.

54) 11 + d = 42   55) 5n = 35.5   56) $-\frac{1}{6}t = 24$ 57) $\frac{h}{6} = 4$

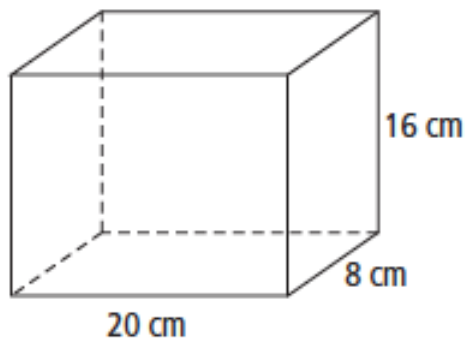**Solve each inequality. Then graph the solution**

58) n + 14 ≥ 18   59) m – 3 ≤ -14   60) 11y < -44

61) $\frac{v}{-3} > 4$ 62) -8k ≤ -64

Find the Volume.

16 cm

8 cm

20 cm

63)