

## Summer 2019 Math Packet for Incoming 7th graders

Compare using  $<$ ,  $>$ , or  $=$

1)  $-3 \underline{\hspace{1cm}} -9$

2)  $|-2| \underline{\hspace{1cm}} -12$

3)  $|-1| \underline{\hspace{1cm}} 1$

Simplify the expression. Using a number line can be helpful

4)  $-12 + 19$

5)  $-24 - 29$

6)  $14 \div (-2)$

7)  $-31 \cdot (-2)$

8) For a class party, the student council purchases 45 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)  $4.2 \div 0.7$

10)  $3.28 \div 1.1$

Find the sum or difference.

11)  $23.3 - 3$

12)  $26 + 4.005$

13)  $29.23 + 3.7$

14)  $29.75 - 43.4$

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

15)  $\frac{3.25}{2} \cdot (0.4 - 0.31) + 4.3$

16)  $9.5 - 17.1 + 42.4 \cdot 0.7 - 13.3$

Show all your work by doing long division. Round to the nearest hundredth

17)  $1242 \div 3$

18)  $34 \div 6.8$

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  $24\frac{1}{2}$  miles,  $11\frac{4}{5}$  miles, and  $16\frac{9}{10}$  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)  $4\frac{2}{5} \div 1\frac{3}{20}$

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### Graph the Inequality

28)  $K > 4$

29)  $C \leq -12$

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)  $\frac{y}{16} = \frac{1.4}{10}$

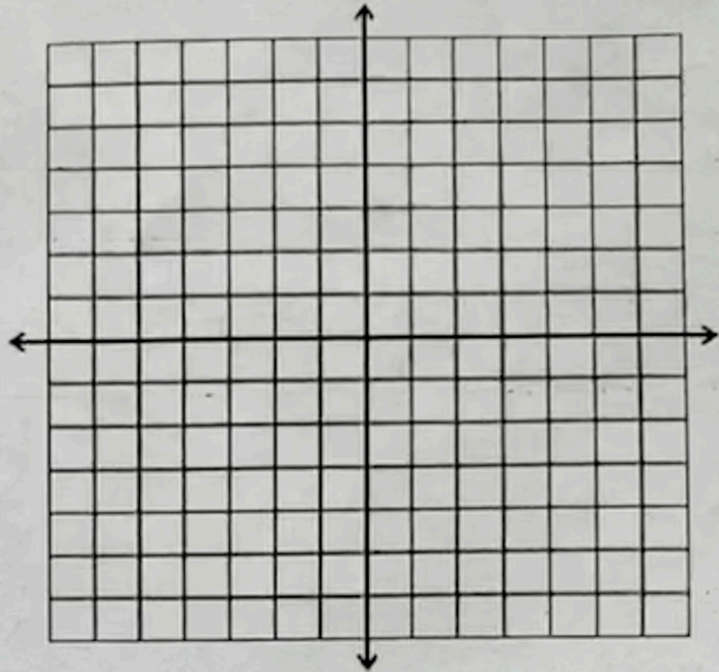
41) A map with a scale of 1 in : 155 miles shows two cities are 4 inches apart. How many miles apart are the two cities?

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.

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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)  $12 \cdot 4 + 14$

53)  $2 - 5 \cdot x$

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)  $n + 14 \geq 18$

59)  $m - 3 \leq -14$

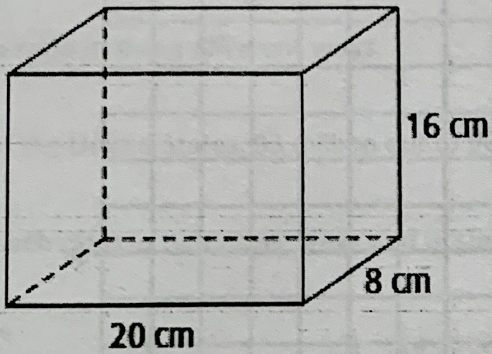
60)  $11y < -44$

61)  $\frac{v}{-3} > 4$

62)  $-8k \leq -64$

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Find the Volume. It is only a rectangular prism here but be sure to know all of the prisms!



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