Chapter 7 Go Math Practice Test

1. Maria has planted tulips and roses in her garden. The ratio of Tulips to total flowers in her garden is 5 to 9.
   What is the ratio of roses to tulips?
   What is the ratio of total flowers to roses?
   What is the ratio of total flowers to tulips?
   Are there less tulips than roses in the garden?

2. Cassidy F works in a toy factory. Cassidy F makes 72 toys in 4 hours.
   How many toys does she make in six hours.

3. Which of the following inequalities are true?

   a. 4 killometers = 3000 meters
   b. 454 centileters > 45.4 liters
   c. 5 kilograms < 500 grams
   d. 53 feet > 13 yards
   e. 12 pints = 4 quarts
   f. 7 tons > 12000 pounds
   g. 600 inches > 40 feet

4. Chase works as a babysitter for his neighbors. He charges the same rate per hour for all of his neighbors.

   Let "h" represent the number of hours Chase babysits.
   Let "t" represent the total amount of Chase earns, in dollars.

Number of Hours of Babysitting	Total Amount of Money Earned
1	
2	26.00
3	39.00
	52.00
5	

5. Plot the coordinate pairs in the table below on the graph and label each axes.

Gallons of Milk	Boxes of Cereal
5	7.5
10	15
12	18
15	22.5

6. What is 35% of _____ is 280?

7. Jacob can write 7 paragraphs in 35 minutes. Using the same unit rate, how many paragraphs can Jacob write in 20 minutes?

8. Alyssa's bowling team is celebrating a big win by having a pizza party. When the party began there were 60 slices of pizza. Now there are 25 slices of pizza left. List at least three ways to represent how much pizza has been eaten. One must be a percent and one must be a fraction.

9. Czarina's bakery is having a sale. Cupcakes are six for three dollars.
   a. What is the unit price for a cupcake?
   b. How much would nine cupcakes cost?

10. Mrs. Ostrem is purchasing trophies for each child that plays little league. She wants to spend no more than eight dollars per trophy. Which of the following purchases with satisfy her budget.

    a. 3 trophies for $25
    b. 5 trophies for $35
    c. 8 trophies for $65
    d. 11 trophies for $80
    e. 13 trophies for $100

11. What are the fractions represented on the number line below?
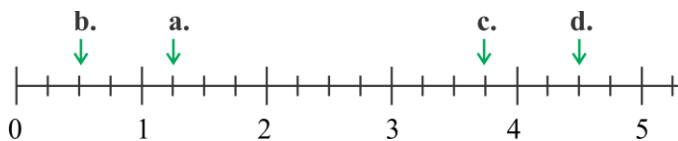
12. Select options that are less than 17.
    a. 2^5 b. 4^2 c. $2^3 + 3^2$ d. $3^4 - 4^3$

13. Enter the value of $5^3 - (3^2 + 1) \times 3$.

14. Write the expression of "seven more than the quotient of the number "y" and six."

15. Write the equation for the verbal phrase of " one fourth of "x" is twenty four."

16. Write a story that would use the following equation 12r =156 to satisfy the story.

17. If x = 5, which of the following inequalities are true?
    a. x – 3 < 6
    b. 5 – x > 14
    c. 2x + 1 < -2
    d. -8 > -3x -5
    e. x ÷ 8 < 1

18. What values make the statement x > -23 true?
    a) 0
    b) -5
    c) 13
    d) -30
    e) 34

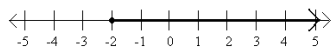19. Which expressions are not equivalent to 12x + 20?
    a. 10(2x + 10)
    b. 10x + 10 + x + 10 + x
    c. 2(6x + 10)
    d. 20(12 + x)
    e. 10x + 10x + 6 + 6
    f. 32x

20. Which statements are true below?

    a. z × z × z + 5 = 8z
    b. (k + k) = k^2
    c. j + 3 + j + 2 = 5 + 2j
    d. z × z × z = 3z
    e. 3 – x^4 = 3 – (x · x · x · x)

21. Write a statement that would describe the inequality below.

22. If j = 5 and k = 7, which equations are true?

    a. j – k × 3 = -6
    b. 7k – 5j = 0
    c. J^2 + k = 32
    d. k + j + k – 10 = 29
    e. k – 3j = -8

23. Create an expression that has two constants in it.

24. Evaluate the following expression.

$13 + x^2 - 7 \times 4$ when x = 3

25. Select all expressions that are equivalent to 7(4g + 2h).

a. 11g + 9h   b. 4(7g + 3h)   c. 2(14g + 7h)   d. 28g + 14h