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6th Grade Unit 6 Practice Questions

1. Create a data set of at least 3 numbers that all satisfy the inequality $15 - 3y > 5$

2. Create a data set of at least 3 numbers that all satisfy the inequality $5 + n > 24 - 10 \div 2$

3. List the values for *b that* satisfy both inequalities?

$$5b - 10 > 5$$
$$2b - 8 < 6$$

4. Freddy goes to school each day Monday through Friday. He is in school for 7 hours every day. Write an equation that you can use to find *h*, the total hours that Luis goes to school over 4 weeks

5. James is 4 years less than triple Jane's age. If *J* represents Jane's age, write an expression represents James's age.

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6. What value of *b* makes the following equation true?

$108 \div b = 9$

7. Jessie has a baseball card collection. He has a total of 255 cards. The cards come in packs of 15. Randy figures that he has bought 17 packs of cards altogether. Name three different ways you could check to see if he is right.

8. If @=x and &=3, what equation is pictured below?

@ @ & & & = @ @ @ &

9. Solve the equation.

$4x = 24$

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10. Gabriella bought some apples, *a*, for $0.64 each. If she spent $12.80 on apples, write and solve the equation you could use to solve for how many apples she bought?

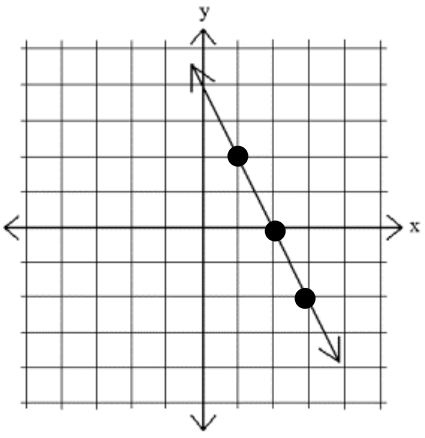
11. $3x + 2 > 7$. Solve and graph the inequality.

12. Underline the words that represent number/ Circle the words that represent mathematical symbols.

The difference between six and three is less than the sum of five and ten.

Rewrite the word sentence using ***only*** numbers and symbols.

13. Make a t-chart for the three points that are marked on the graph.



x	y

Use that t-chart to write the equation for the line.

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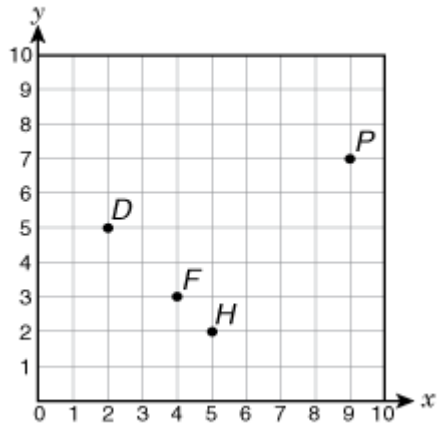
14. Using the same pattern, complete the chart below.

x	y
1	9
2	15
3	21
4	27
5	
6	
7	

15. Write an equation that would have D, F, and H all on the same line.



16. List 3 points that would be on the line $y = 3x - 2$

17.Based on the graph, what would y equal when x is 5?