

Math 6<sup>th</sup>: Algebra: Unit 6 Equations and Inequalities Pre-Test

Total Score: \_\_\_\_\_ /27

**Directions:** Carefully read and follow the directions for each section. Remember to **SHOW YOUR WORK** and write your answers on the lines provided. Don't forget the correct units!

<b>Total:</b>	
2 points LT1	Write an equation for each word sentence. Do not solve!
Score:	1.) 42 is the product of 5 and p. 2.) y decreased by 17 is 8.
	1.) _____ 2.) _____
<b>Learning Target #1 Score: Add points from 1-2: _____ /2</b>	
2 points LT2	Solve each equation.
Score:	3.) $1.1 + x = 21.5$ 4.) $b - 3.5 = 5.6$
	3.) _____ 4.) _____
2 points LT2	5.) You have watched a movie for 62 minutes. The movie is a total of 112 minutes long. Write and solve an equation to find the number of minutes $m$ that remain.
Score:	Equation: _____
	Answer: _____
<b>Learning Target #2 Score: Add points from 3-5: _____ /4</b>	
2 points LT3	
Score:	6.) $\frac{x}{12} = 12$ 7.) $2.3m = 13.8$
	6.) _____ 7.) _____
1 points LT 3	8.) Explain how you would check #6 to make sure that the answer is correct.
Score:	
<b>Learning Target #3 Score: Add points from 6-8: _____ /3</b>	

2 points  
LT4

Tell whether the ordered pair is a solution of the equation.

9.)  $y = 5x - 2$ ; (3, 17)

10.)  $y = 12x$ ; (2, 24)

Score:

Show your math:

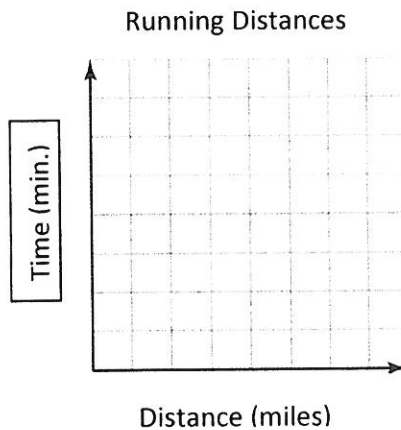
9.) Yes or No

10.) Yes or No

2 points  
LT4

11a.) Fill in the table and graph the relationship between time and distance if you run one mile in four minutes.

Distance	Time	Ordered Pair
1 mile		
3 miles		
5 miles		



Score:

11b.) What is the independent variable?

3 points  
LT4

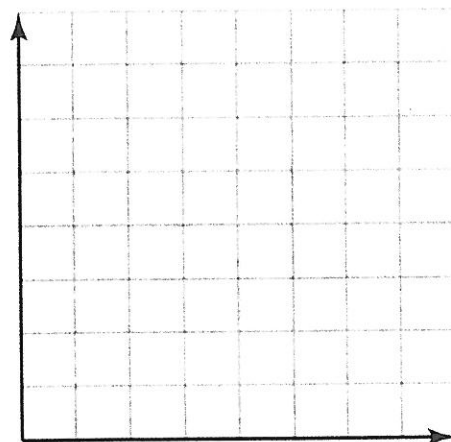
12.) You rent a snowboard for \$12 an hour and you have to pay an additional \$3 for protective gear.

Score:

The equation that represents the total cost of going snowboarding is  $c = 12h + 3$ .

a.) Fill in the table and graph your equation. Label axes and give a title.

Time	Evaluate Equation (show your work)	Cost	Ordered Pair
1 hr.			
2 hrs.			
3 hrs.			
4 hrs.			



b.) How much will it cost to go snowboarding for 4 hours?

12c.) \_\_\_\_\_

Learning Target #4 Score: Add points from 9-12: \_\_\_\_\_ /7



