Name_	Units Date
	Math 6 <sup>th</sup> : Algebra: Unit 6 Equations and Inequalities Pre-Test  Total Score:
<u>Direction</u> WORK a	ns: Carefully read and follow the directions for each section. Remember to <u>SHOW YOUR</u> nd write your answers on the lines provided. Don't forget the correct units!
Total:	
2 points LT1	Write an equation for each word sentence. Do not solve!  1.) 42 is the product of 5 and p.
Score:	2.) y decreased by 17 is 8.
	2.)
Learning	Target #1 Score: Add points from 1-2:/2
2 points	
LT2	3.) 1.1 + x = 21.5 4.) b - 3.5 = 5.6
Score:	3.)
	4.)
~2 Score:	and solve an equation to find the number of minutes <i>m</i> that remain.  Equation:
Learnina	Answer:  Target #2 Score: Add points from 3-5: /4
2 points	
	6.) $\frac{x}{12} = 12$ 7.) 2.3m = 13.8
Score:	6.)
	7.)
1 points LT 3	8.) Explain how you would check #6 to make sure that the answer is correct.
:	
earning 7	Target #3 Score: Add points from 6-8: /3

2	point
	- 4

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

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

Score:

Show your math:

9.) Yes or No

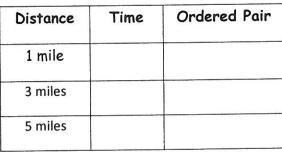
10.) Yes or No

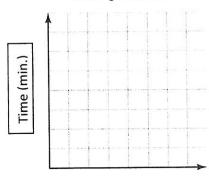
## 2 points LT4

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

Running Distances

Score	:
000.0	





Distance (miles)

11b.) What is the independent variable?

## 3 points LT4

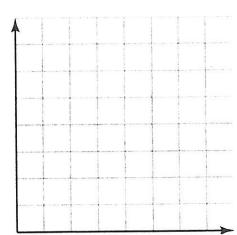
12.) You rent a snowboard for \$12 an hour and you have to pay an additional \$3 for protecting gear.

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

2 points	Write the word sentence as an inequality	•					
LT5	13.) A number $n$ is at at most 32.	14.) x is smaller than 10.					
Score:		13.)					
.1,							
		14.)					
2 points	Graph the inequality on a number line.						
LIS	15.) x > 13	16.) m ≤ 3					
Score:							
	<del>&lt;++++++++++++++++++++++++++++++++++++</del>	<del></del>					
	Target #5 Score: Add points from 13	-16: /4					
2 points	2 points   Solve each inequality.						
2.0	17.) x - 33 ≤ 2 18.) h +	19 < 111					
Score:		17.)					
		18.)					
2 points	Tell whether the given value is a solution of the	inequality.					
LT6	19.) x + 9 < 16; x = 20 20.) b - 4 < 13; y = 11						
ocore:	Show your math:						
-		v.					
	19.) Yes or No	20.) Yes or No					
Learning	Target #6 Score: Add points from 17-	20: /4					
2 points	Solve each inequality.						
LT7	21.) $4 > \frac{y}{8}$ 22.) 9	9x ≥ 54					
Score:	-						
		21.)					
		22.)					
1 points	23.) Is the student correct? Explain your re	easoning.					
	$\frac{x}{6}$	4 14.4 5 ÷ 6					
Score:		5 ÷ 6 2.4					
	Circle One: Correct Wrong  Explanation:						
Leanning	Target #7 Score: Add points from 21-	23: /3					

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