EXAM REVIEW GRADE 9 Unit 4 – Linear Relations

Nam	ne:		Class:			
1.	In the equation	m = 3n - 2, determine	e the value of m when $n = 5$.			
2.	Diagram 1	Diagram 2	Diagram 3			

- a) Determine the expression that relates the number of toothpicks (t) to the diagram number (d).
- b) Given the diagrams shown, how many toothpicks would be used to construct Diagram 15?
- 3. Explain which table of values represents a linear relation?

)	x 0) 1	2	3	4	Х	0	1	2	3	4
<u>\</u>	y 2	2 4	6	4	2	У	3	1	-1	-3	-5
-					-						
		4	0	2	4					0	4
Х	0	1	2	3	4	х	0	1	2	3	4

- 4. The fee to ride in King Taxi is \$4 plus \$1.25 for each km travelled. Determine the equation that relates the total cost C to the distance travelled d.
- 5. Use the grid to draw the lines :



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- 6. A stone is dropped from a bridge. Its speed increases due to the force of gravity. If the speed, **s** in m/s, after **t** second is given by the formula s = 9.8t + 3, what is the speed of the stone at 5 seconds?
- 7. The graph shown represents a linear relation. Determine the value of y when x = 6.



8. Complete each table of values.



b)	2 <i>x</i> +	- y =	-1
	Х	Y	
	-1		
	0		
	1		
	2		

9. Graph your equations above on the grids provided:



10. What value of x will make y = -32 for the equation y = 4x - 12?