

Ma9 LG 7A (Formative Assessment)

Marking Teacher: _____

Name _____

Student #: _____

MATH 9 LG 7 QUIZ

Multiple Choice

Identify the choice that best completes the statement or answers the question.

_____ 1. Complete the table of values.

$$y = 9 - 5x$$

x	2	4	6	8
y				

a.

x	2	4	6	8
y	4	-1	-6	-11

c.

x	2	4	6	8
y	4	8	12	16

b.

x	2	4	6	8
y	8	16	24	32

d.

x	2	4	6	8
y	-1	-11	-21	-31

_____ 2. Which points lie on the graph represented by the equation $y = 14 - 5x$?

P(1, 9), Q(2, 18), R(2, 4), S(0, 9)

- a. P and Q b. Q and R c. R and S d. P and R

_____ 3. The pattern in this table continues. Determine the expression that relates the number of triangles to the figure number.

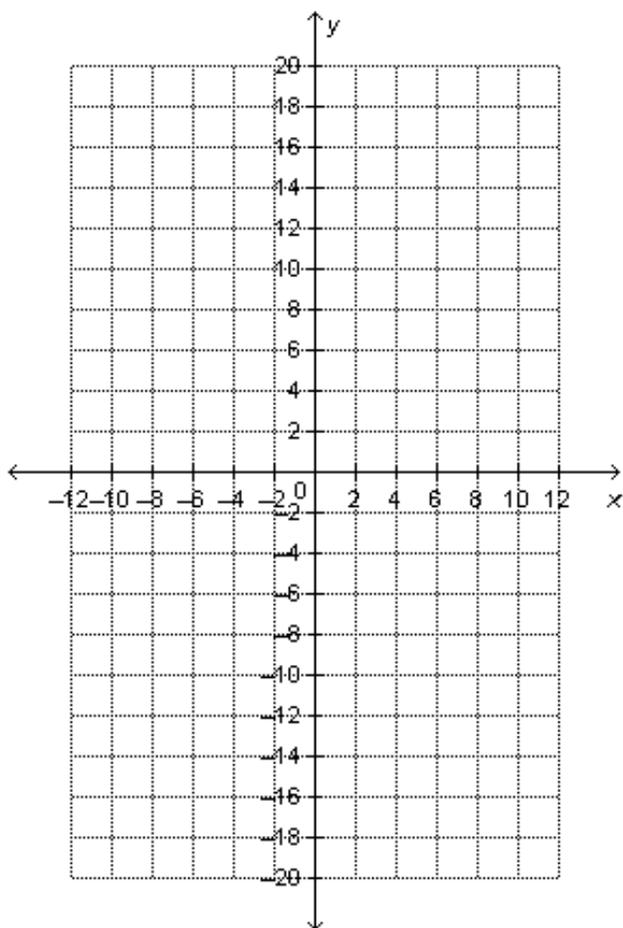
Figure, f	1	2	3	4	5
Number of Triangles, t	2	4	6	8	10

- a. $2f$ b. $2 + t$ c. $2t$ d. $2 + f$

Short Answer

4. Create a table of values for the linear relation $y = 4 - 4x$, then graph the relation. Use values of x from 0 to 6.

x	0	1	2	3	4	5	6
y							



5. The pattern in this table continues. Write an equation that relates the term value to the term number.

Term Number, t	1	2	3	4	5
Term Value, w	5	8	11	14	17

6. Here is a pattern made with toothpicks.
The pattern continues.



Figure 1



Figure 2



Figure 3

- a) Write an equation that relates the number of toothpicks, N , to the figure number, n .
b) How many toothpicks are needed for figure 80?