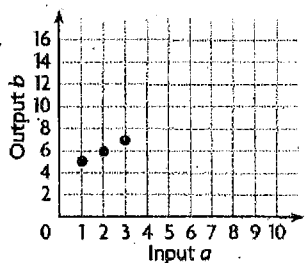


Number Patterns: Additive/Multiplicative Part 2!

DIRECTIONS: Write the ordered pairs from the scatter plot into the input/output tables. LABEL the pattern *additive* or *multiplicative*.

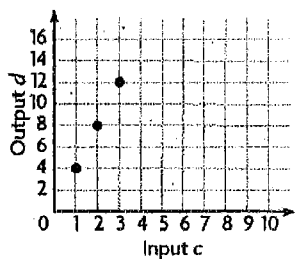
1.



Input X	Output Y

\_\_\_\_\_

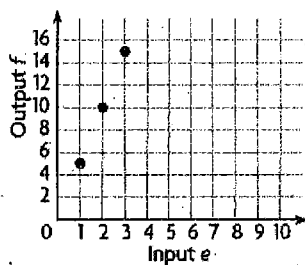
2.



Input X	Output Y

\_\_\_\_\_

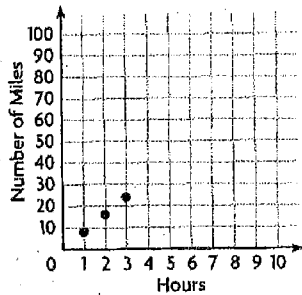
3.



Input X	Output Y

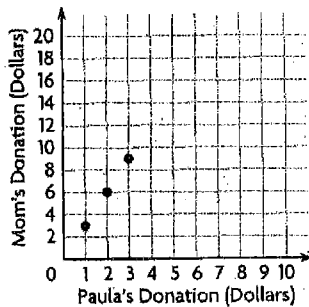
\_\_\_\_\_

4. The graph shows the relationship between the number of hours Mary bikes and the distance she travels. How many miles does Mary bike in 4 hours?



- a. 28 miles
- b. 12 miles
- c. 32 miles
- d. 30 miles

5. For every \$1 Paula donates to her favorite charity, her mom donates \$3. Which of the following identifies the pattern and the amount her mom donates if Paula donates \$6?



- a. \$18, multiplicative
- b. \$24, multiplicative
- c. \$24, additive
- d. \$12, additive

6. A recipe for carrot juice uses the formula  $j=6c$ , where  $j$  is the amount of juice in ounces and  $c$  is the number of pounds of carrots needed. How many pounds of carrots are needed for a 30-ounce glass of carrot juice?

- a. 5 pounds
- b. 24 pounds
- c. 180 pounds
- d. 36 pounds

7. Hudson uses the rule  $y=x + 5$  to complete a table and make a graph. Which number pair will be on the graph?

Input	Output
x	y
1	6
2	7
3	
4	
5	

- a. (6,1)
- b. (4,8)
- c. (5,0)
- d. (4,9)

8. The rule  $d=12t$  shows the cost in dollars,  $d$ , for the number of movie tickets,  $t$ . Which two points could be on the graph?

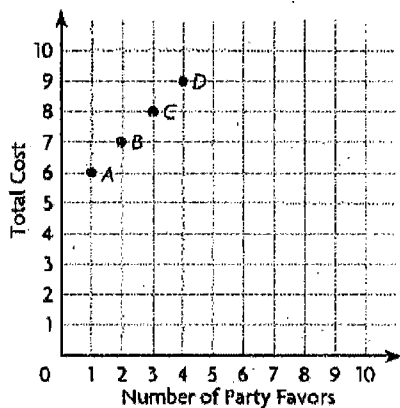
- a. (0,12) and (36,3)
- b. (1,11) and (2,24)
- c. (0,0) and (3,36)
- d. (0,12) and (3,36)

9. Leighton uses the rule  $s = 7g$  to show the number of snacks he needs,  $s$ , for the number of guests at his party,  $g$ . Which number pair shows the number of snacks needed

for 4 guests?

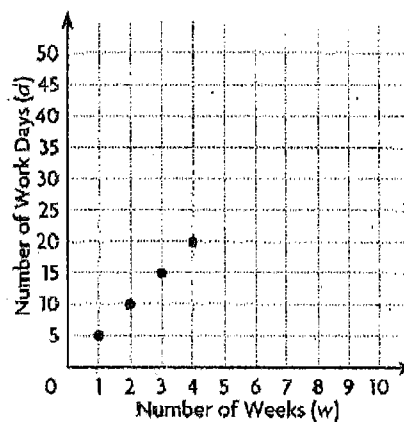
- a. (4,28)
- b. (1,8)
- c. (4,14)
- d. (28,4)

10. Party favors cost \$1, plus \$5 for shipping. The rule is  $t = 5 + p$ , where  $t$  is the total cost in dollars and  $p$  is the number of party favors bought. Which point on the graph shows the total cost of 4 party favors?



- a. Point A
- b. Point B
- c. Point C
- d. Point D

11. The graph shows the relationship between the number of work days and the number of weeks. Which rule best describes the pattern in the graph?



- a.  $d = w + 5$
- b.  $w = 5d$
- c.  $d = 5w$
- d.  $w = d + 5$

12. The rule for a pattern is  $c = 6w$ . What is the output,  $c$ , when the input,  $w$ , is 6?

- a. 1
- b. 2
- c. 36
- d. 42