

Linear Relations - Check In

Multiple Choice

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

- _____ 1. Complete this table of values for the relation $y = x + 3$.

x	1	2	3	4
y				

a.

x	1	2	3	4
y	4	5	6	7

c.

x	1	2	3	4
y	3	6	9	12

b.

x	1	2	3	4
y	3	4	5	6

d.

x	1	2	3	4
y	6	9	12	15

- _____ 2. Complete this table of values for the relation $y = -x + 3$.

x	1	2	3	4
y				

a.

x	1	2	3	4
y	3	6	9	12

c.

x	1	2	3	4
y	2	1	0	-1

b.

x	1	2	3	4
y	-4	-5	-6	-7

d.

x	1	2	3	4
y	-3	-6	-9	-12

- _____ 3. The ordered pair $(5, \quad)$ is in the linear relation with equation $y = -2x + 8$. Find the missing number in the ordered pair.

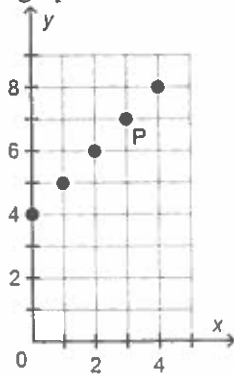
a. 1

b. 11

c. -2

d. -18

4. This graph shows the linear relation $y = x + 4$.



Write the ordered pair for point P.

- a. (1, 1) b. (7, 3) c. (3, 3) d. (3, 7)

5. Complete this table of values for the linear relation $y = 3x - 5$.

x	0	1	2	3	4
y					

a.

x	0	1	2	3	4
y	-2	-1	0	1	2

b.

x	0	1	2	3	4
y	-2	1	4	7	10

c.

x	0	1	2	3	4
y	-5	-2	1	4	7

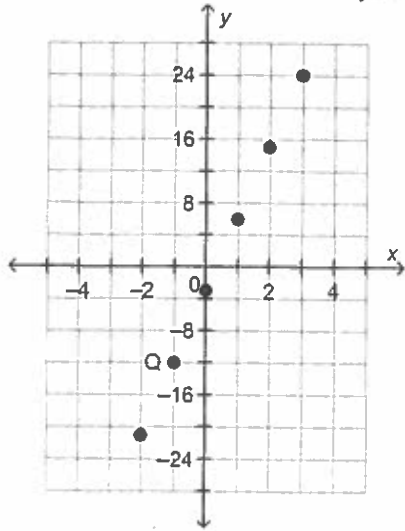
d.

x	0	1	2	3	4
y	5	2	-1	-4	-7

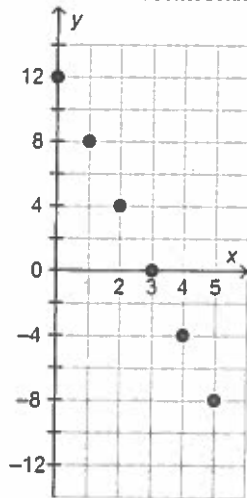
Short Answer

6. The equation of a linear relation is $y = 5x + 9$. What is the value of x when $y = 34$?
7. Make a table of values for the relation $y = 6 + 5x$ for $x = 0, 1, 2, 3,$ and 4 .

8. The graph shows the relation $y = 9x - 3$. Write the ordered pair for point Q.



9. This graph shows the linear relation $y = -4x + 12$. Describe the relationship between the variables x and y .



10. Brandon has \$240 in his bank account. He withdraws \$25 each week. An equation for this relation is $c = 240 - 25w$, where c represents the amount of money, in dollars, in Brandon's account after w weeks.

a) Complete this table of values for the relation.

Number of Weeks, w	0	2	4	6	8
Amount, c (\$)					

b) Find the amount of money in Brandon's account after 7 weeks.

Name: _____

ID: A

Problem

11. Marie has \$1140 in the bank. She withdraws \$95 every month.
An equation for this relation is $c = 1140 - 95m$.
- What does c represent?
 - How much money will Marie have in her account after 8 months?
 - How long will it take Marie to withdraw all the money in her account?
Show your work.
12. a) Graph both relations on the same coordinate axes.
- $y = 8 - x$
 - $y = x + 2$
- b) Find the ordered pair on the graph that are in both relations.