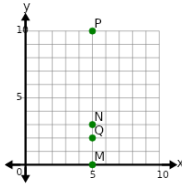




Model real-world situations using linear equations

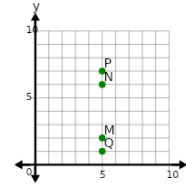
1For the equation $y = 2x$, what point is at $x = 5$?

A M

B N

C Q

D P

2For the equation $y = 1.2x + 1$, what point is at $x = 5$?

A M

B Q

C P

D N

3

What chart of X, Y values matches this equation?

$$y = 1x + 1$$

A

X	Y
0	1
1	2
2	3
3	4
4	5

B

X	Y
0	1
1	-1
2	-3
3	-5
4	-7

4

What chart of X, Y values matches this line equation?

$$y = -\frac{1}{3}x + 0.33$$

A

X	Y
0	0.33
1	0
2	-0.33
3	-0.67
4	-1

B

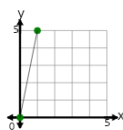
X	Y
0	0.33
1	-2.67
2	-5.67
3	-8.67
4	-11.67

5

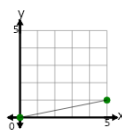
What graphed line shows this line equation?

$$y = \frac{1}{5}x$$

A



B

**6**

What line equation would create this set of X, Y values?

X	Y
0	0
1	1
2	2
3	3
4	4

A

$$y = \frac{1}{2}x$$

B

$$y = 1x$$

C

$$y = -1x$$



Model real-world situations using linear equations

7

What line equation would create this set of X, Y values?

X	Y
0	1
1	0
2	-1
3	-2
4	-3

A

$$y = 1x + 1$$

B

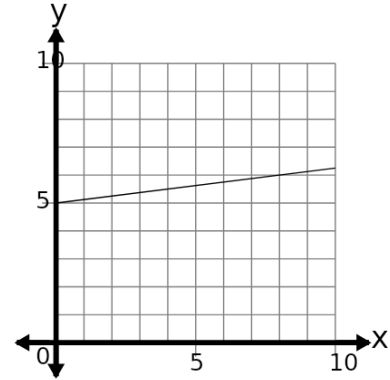
$$y = -\frac{1}{2}x + 1$$

C

$$y = -1x + 1$$

8

Select the equation that would result in the line on the graph as shown



A

$$y = -5x - 0.13$$

B

$$y = -1.87x + 3.5$$

C

$$y = 0.13x + 5$$

D

$$y = 1.63x + 6.5$$

E

$$y = 2.13x + 6.5$$

9

The length is eight less than three times the width.

A

$$l = 3w - 8$$

B

$$l = 3w + 8$$

C

$$l = 3(w - 8)$$

D

$$l = 3w \times 8$$

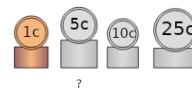
E

$$l = 8w - 3$$

10

Some coins have a total value of \$0.73. There are the same number of Pennies, Nickels, and Dimes but a different number of Quarters. How many Nickels are there?

\$0.73



A 3

B 5

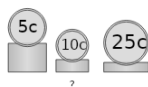
C 6

D 9

11

Some coins have a total value of \$2.55. There are $\frac{1}{2}$ as many Dimes as Nickels and $\frac{1}{3}$ as many Quarters as Dimes. How many Dimes are there?

\$2.55



A 18

B 16

C 1

D 9

E 13

12

The length is twelve more than five times the width.

A

$$l = 5w + 12$$

B

$$l = 12w + 5$$

C

$$l = 5(w + 12)$$

D

$$l = 5w - 12$$

E

$$l = 5w \times 12$$