



Recognize proportional relationships

1

How many cats are there?

cats : ?

dogs : 3

$$(\text{cats} : \text{dogs}) = (5 : 3)$$

A 4

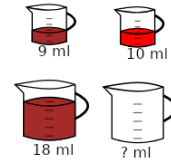
B 3

C 9

D 5

2

This sundae needs 10 ml of strawberry for every 9 ml of chocolate. How much strawberry is needed if you have 18 ml of chocolate



A 12 ml

B 20 ml

C 15 ml

D 22 ml

3

This sundae needs 30 ml of strawberry for every 24 ml of chocolate. How much strawberry is needed if you have 8 ml of chocolate

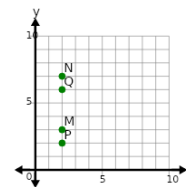


A 4 ml

B 9 ml

C 10 ml

D 17 ml

4For the equation $y = 1x$, what point is at $x = 2$?

A N

B Q

C M

D P

5

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

X	0	1	2	3	4
Y	0	0.25	0.5	0.75	1

A $y = -4x$

B $y = \frac{4}{2}x$

C $y = \frac{1}{4}x$

6

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

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

A $y = -1x$

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

C $y = 1x$

7

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

$$y = \frac{1}{3}x$$

A

X	0	1	2	3	4
Y	0	3	6	9	12

B

X	0	1	2	3	4
Y	0	0.33	0.67	1	1.33

**Recognize proportional relationships****8**

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

$$y = 3x$$

A

X	Y
0	0
1	0.33
2	0.67
3	1
4	1.33

B

X	Y
0	0
1	3
2	6
3	9
4	12

9

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

X	Y
0	5
1	10
2	15
3	20

A

$$y = \frac{5}{2}x$$

B

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

C

$$y = -5x$$

D

$$y = 5x$$

10

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

$$y = 1x$$

A

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

B

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

11

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

X	Y
0	0.5
1	1
2	1.5
3	2

A

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

B

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

C

$$y = -2x$$