



Recognize proportional relationships

1

What is the (simplest) ratio of boys to girls?

boys : 10

girls : 8

A 11:8

B 1:6

C 5:4

D 1:2

2

How many dogs are there?

cats : 12

dogs : ?

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

A 16

B 10

C 20

D 32

3

total weight: 2 kg total cost: 4.5 \$

A 3.5 \$/kg

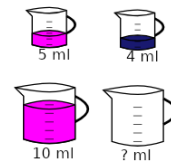
B 1.25 \$/kg

C 2 \$/kg

D 2.25 \$/kg

4

This paint color needs 4 ml of blue for every 5 ml of magenta. How much blue is needed if you have 10 ml of magenta



A 8 ml

B 1 ml

C 5 ml

D 4 ml

5

This sundae needs 24 ml of strawberry for every 20 ml of chocolate. How much strawberry is needed if you have 5 ml of chocolate



A 9 ml

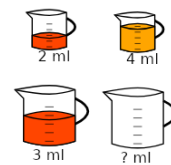
B 6 ml

C 13 ml

D 8 ml

6

This sauce needs 4 ml of mustard for every 2 ml of ketchup. How much mustard is needed if you have 3 ml of ketchup



A 7 ml

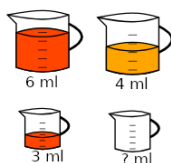
B 8 ml

C 6 ml

D 13 ml

7

This sauce needs 4 ml of mustard for every 6 ml of ketchup. How much mustard is needed if you have 3 ml of ketchup

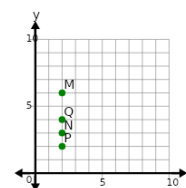


A 7 ml

B 2 ml

C 4 ml

D 6 ml

8For the equation $y = 2x$, what point is at $x = 2$?

A N

B Q

C P

D M



Recognize proportional relationships

9 $m = -1$

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

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

10

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

X	Y
0	0
1	2
2	4
3	6
4	8

A $y = -2x$

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

C $y = 2x$

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

11

What rule turns each input into its output?

Input	Output
2	4
3	6
5	10
8	16
9	18

A multiply by 4

B multiply by 5

C divide by 12

D multiply by 2

12

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

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

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

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

C $y = -4x$