



Recognize proportional and non-proportional patterns informally

1

19, 15, 11, 7

A



B

**3**

How many girls are there?

boys : 12

girls : ?

(boys : girls) = (4 : 5)

A 6

B 15

C 20

D 19

4

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

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

A

$$y = \frac{3}{2}x$$

B

$$y = -3x$$

C

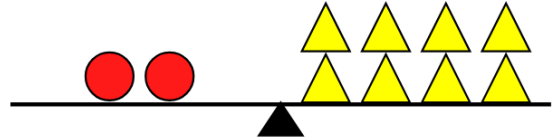
$$y = 3x$$

D

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

2

Which equation represents the solution to the bottom scale?



A

$$7t + 4c = c$$

B

$$4t = c$$

C

$$7t + 2c = c$$

D

$$4t + 2c = c$$

E

$$4t + c = c$$

5

This smoothie needs 33 ml of peach for every 27 ml of lime. How much peach is needed if you have 9 ml of lime



A 11 ml

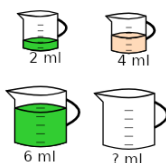
B 8 ml

C 13 ml

D 12 ml

6

This smoothie needs 4 ml of peach for every 2 ml of lime. How much peach is needed if you have 6 ml of lime



A 12 ml

B 6 ml

C 7 ml

D 10 ml

7

How many dogs are there?

cats : 20

dogs : ?

(cats : dogs) = (5 : 4)

A 7

B 23

C 20

D 16



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8

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

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

A

$$y = -1x$$

B

$$y = 1x$$

C

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

9

This sauce needs 30 ml of mustard for every 27 ml of ketchup. How much mustard is needed if you have 9 ml of ketchup



A 14 ml

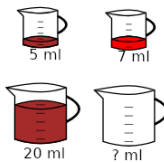
B 4 ml

C 10 ml

D 6 ml

10

This sundae needs 7 ml of strawberry for every 5 ml of chocolate. How much strawberry is needed if you have 20 ml of chocolate



A 35 ml

B 20 ml

C 28 ml

D 33 ml

11

How many dogs are there?

cats : 12

dogs : ?

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

A 16

B 32

C 10

D 20

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

$$y = -4x$$

B

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

C

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