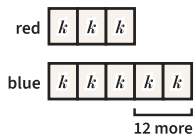


Ratio and equations

1

The ratio of red to blue is 3 : 5. There are 12 more blue than red. How many red are there?



One part is k $3k$ and $5k$

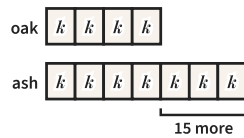
$5k - 3k = 12$

$k =$

Answer

2

The ratio of oak to ash is 4 : 7. There are 15 more ash than oak. How many oak are there?



One part is k $4k$ and $7k$

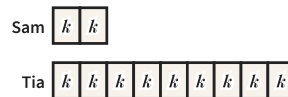
$7k - 4k = 15$

$k =$

Answer

3

Sam and Tia share £66 in the ratio 2 : 9. How much does each get?



One part is k and

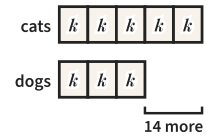
$2k + 9k = 66$

$k =$

Answer

4

The ratio of cats to dogs at a shelter is 5 : 3. There are 14 more cats than dogs. How many animals are there?



$k =$

Answer

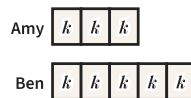
5

$(x + 3) : (2x - 1) = 2 : 3$. Find x .

Answer

6

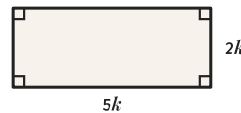
The ratio of Amy's age to Ben's age is 3 : 5. In 6 years it will be 2 : 3. How old is Ben now?



Answer

7

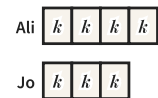
The sides of a rectangle are in the ratio 2 : 5. Its perimeter is 56 cm. Find its area.



Answer

8

Ali and Jo have counters in the ratio 4 : 3. Ali gives Jo 6 counters. Now they have the same number. How many did Ali have at the start?

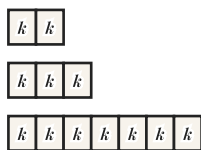


Answer

Ratio and equations further practice

9

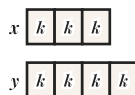
The angles of a triangle are in the ratio 2 : 3 : 7. Find the largest angle.



Answer

10

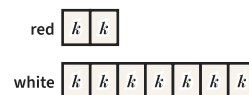
$x : y = 3 : 4$ and $x + y = 35$. Find $y - x$.



Answer

11

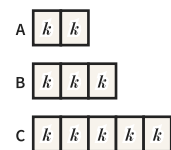
A tin holds 18 litres of red and white paint in the ratio 2 : 7. How much red paint must be added to make the ratio 1 : 2?



Answer

12

Prizes are shared between A, B and C in the ratio 2 : 3 : 5. C gets £36 more than A. How much is shared altogether?



Answer

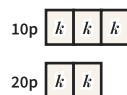
13

$(2x + 1) : (x + 4) = 5 : 3$. Find x .

Answer

14

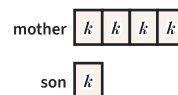
A jar holds 10p and 20p coins in the ratio 3 : 2. The coins are worth £5.60. How many coins are in the jar?



Answer

15

A mother's age and her son's age are in the ratio 4 : 1. In 6 years they will be in the ratio 5 : 2. How old is the son now?



Answer

16

Lily says if $A : B = 2 : 3$ and both get £5 more, the ratio stays 2 : 3. Is she right? Show it with an example.

Answer