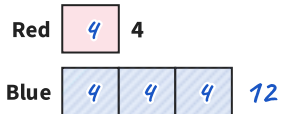


Ratio: Finding a Missing Amount

ANSWERS

1

Red and blue beads are in the ratio 1 : 3. There are 4 red beads.
How many blue beads are there?

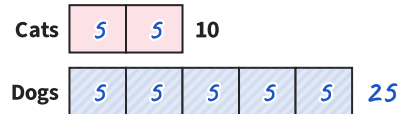


$$1 \text{ part} = 4 \div 1 = 4$$

$$\text{Blue} = 4 \times 3 = 12$$

2

Cats and dogs are in the ratio 2 : 5.
There are 10 cats.
How many dogs are there?

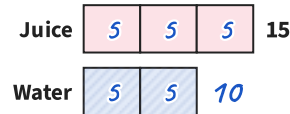


$$1 \text{ part} = 10 \div 2 = 5$$

$$\text{Dogs} = 5 \times 5 = 25$$

3

Juice and water are mixed in the ratio 3 : 2. Ella uses 15 ml of juice.
How much water does she use?

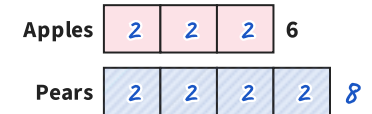


$$1 \text{ part} = 15 \div 3 = 5$$

$$\text{Water} = 5 \times 2 = 10$$

4

Apples and pears are in the ratio 3 : 4. There are 6 apples.
How many pears are there?

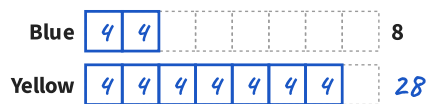


$$1 \text{ part} = 6 \div 3 = 2$$

$$\text{Pears} = 2 \times 4 = 8$$

5

Blue and yellow paint are mixed in the ratio 2 : 7.
Zak uses 8 litres of blue.
How much yellow does he use?



$$1 \text{ part} = 8 \div 2 = 4$$

$$\text{Yellow} = 4 \times 7 = 28$$

6

Boys and girls in a club are in the ratio 2 : 5. There are 35 girls.
How many boys are there?

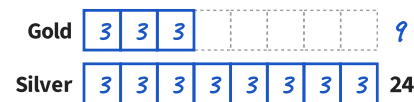


$$1 \text{ part} = 35 \div 5 = 7$$

$$\text{Boys} = 7 \times 2 = 14$$

7

Gold and silver stars are in the ratio 3 : 8. There are 24 silver stars.
How many gold stars are there?

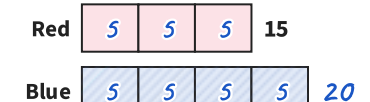


$$1 \text{ part} = 24 \div 8 = 3$$

$$\text{Gold} = 3 \times 3 = 9$$

8

The bars show the ratio of red to blue beads. There are 15 red beads.
How many blue beads are there?



$$1 \text{ part} = 15 \div 3 = 5$$

$$\text{Blue} = 5 \times 4 = 20$$

Ratio: Finding a Missing Amount *further practice*

ANSWERS

9



Cups and plates are in the ratio 4 : 3. There are 12 plates.
How many cups are there?

Cups

4	4	4	4				
---	---	---	---	--	--	--	--

 16
Plates

4	4	4					
---	---	---	--	--	--	--	--

 12

$$1 \text{ part} = 12 \div 3 = 4$$

$$\text{Cups} = 4 \times 4 = 16$$

10



Cars and vans in a car park are in the ratio 5 : 2. There are 14 vans.
How many cars are there?

Cars

7	7	7	7	7			
---	---	---	---	---	--	--	--

 35
Vans

7	7						
---	---	--	--	--	--	--	--

 14

$$1 \text{ part} = 14 \div 2 = 7$$

$$\text{Cars} = 7 \times 5 = 35$$

11



The width and height of a photo are in the ratio 3 : 2. The height is 12 cm. What is the width?

Width

6	6	6					
---	---	---	--	--	--	--	--

 18
Height

6	6						
---	---	--	--	--	--	--	--

 12

$$1 \text{ part} = 12 \div 2 = 6$$

$$\text{Width} = 6 \times 3 = 18$$

12



A recipe uses 2 eggs for every 5 spoons of flour. Ali uses 8 eggs.
How many spoons of flour does he use?

Eggs

4	4						
---	---	--	--	--	--	--	--

 8
Flour

4	4	4	4	4			
---	---	---	---	---	--	--	--

 20

$$1 \text{ part} = 8 \div 2 = 4$$

$$\text{Flour} = 4 \times 5 = 20$$

13



Red and white paint are mixed in the ratio 3 : 7.
Jo uses 30 litres of red.
How much white does she use?

Red

10	10	10					
----	----	----	--	--	--	--	--

 30
White

10	10	10	10	10	10	10	
----	----	----	----	----	----	----	--

 70

$$30 \div 3 = 10$$

$$10 \times 7 = 70$$

Answer 70 litres

14



Boys and girls in a choir are in the ratio 2 : 3. There are 8 boys.
How many children are in the choir altogether?

Boys

4	4						
---	---	--	--	--	--	--	--

 8
Girls

4	4	4					
---	---	---	--	--	--	--	--

 12

$$8 \div 2 = 4$$

$$4 \times 3 = 12 \text{ girls}$$

$$8 + 12 = 20$$

Answer 20 children

15



Vans and cars on a ferry are in the ratio 1 : 6. There are 4 vans.
How many more cars than vans are there?

Vans

4							
---	--	--	--	--	--	--	--

 4
Cars

4	4	4	4	4	4		
---	---	---	---	---	---	--	--

 24

$$4 \times 6 = 24 \text{ cars}$$

$$24 - 4 = 20$$

Answer 20 more

16



Red and blue beads are in the ratio 3 : 4. There are 12 red beads.
Lou says there are 13 blue beads, because 4 is one more than 3.
What has he done wrong?

Red

4	4	4					
---	---	---	--	--	--	--	--

 12
Blue

4	4	4	4				
---	---	---	---	--	--	--	--

 16

Lou should

$$\text{find one part. } 12 \div 3 = 4$$

$$4 \times 4 = 16 \text{ blue beads}$$

Right answer 16