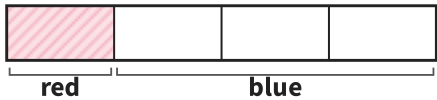


Ratios and Fractions

ANSWERS

1

The ratio of red to blue is 1 : 3.
What fraction of the counters are red?

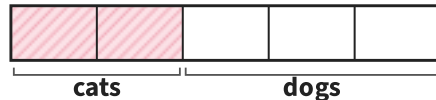


$$\text{Parts} = 1 + 3 = 4$$

$$\text{red} = \frac{1}{4}$$

2

The ratio of cats to dogs is 2 : 3.
What fraction of the animals are cats?

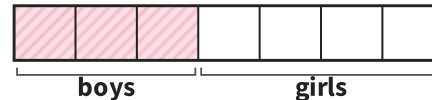


$$\text{Parts} = 2 + 3 = 5$$

$$\text{cats} = \frac{2}{5}$$

3

The ratio of boys to girls is 3 : 4.
What fraction of the children are girls?

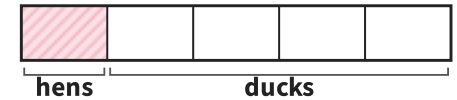


$$\text{Parts} = 3 + 4 = 7$$

$$\text{girls} = \frac{4}{7}$$

4

The ratio of hens to ducks is 1 : 4.
What fraction of the birds are ducks?

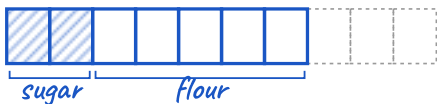


$$\text{Parts} = 1 + 4 = 5$$

$$\text{ducks} = \frac{4}{5}$$

5

The ratio of sugar to flour is 2 : 5.
What fraction of the mixture is sugar?

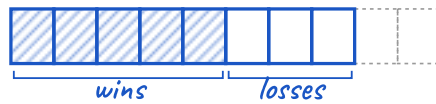


$$\text{Parts} = 2 + 5 = 7$$

$$\text{sugar} = \frac{2}{7}$$

6

The ratio of wins to losses is 5 : 3.
What fraction of the games are losses?

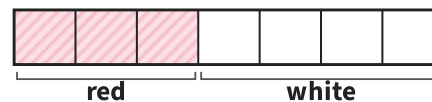


$$\text{Parts} = 5 + 3 = 8$$

$$\text{losses} = \frac{3}{8}$$

7

$\frac{3}{7}$ of the cars are red.
The rest are white.
Write the ratio of red to white.

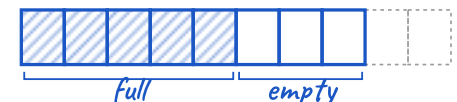


$$\text{Rest} = 7 - 3 = 4$$

$$\text{red : white} = 3 : 4$$

8

$\frac{5}{8}$ of the cups are full.
The rest are empty.
Write the ratio of full to empty.



$$\text{Rest} = 8 - 5 = 3$$

$$\text{full : empty} = 5 : 3$$

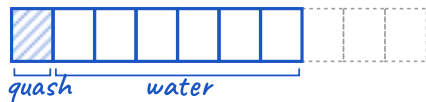
Ratios and Fractions *further practice*

ANSWERS

9

The ratio of squash to water is 1 : 6.

What fraction of the drink is squash?



$$\text{Parts} = 1 + 6 = 7$$

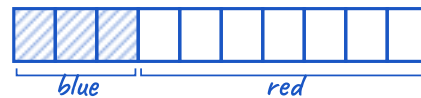
$$\text{squash} = \frac{1}{7}$$

10

$\frac{3}{10}$ of the pencils are blue.

The rest are red.

Write the ratio of blue to red.



$$\text{Rest} = 10 - 3 = 7$$

$$\text{blue : red} = 3 : 7$$

11

On a bus, the ratio of adults to children is 4 : 5.

What fraction of the people are children?



$$\text{Parts} = 4 + 5 = 9$$

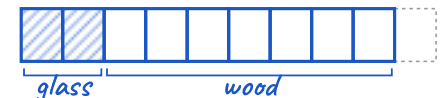
$$\text{children} = \frac{5}{9}$$

12

$\frac{2}{9}$ of the beads are glass.

The rest are wood.

Write the ratio of wood to glass.



$$\text{Rest} = 9 - 2 = 7$$

$$\text{wood : glass} = 7 : 2$$

13

In a club, the ratio of boys to girls is 3 : 7.

What fraction of the club are girls?



$$3 + 7 = 10 \text{ parts}$$

$$7 \text{ of the } 10 \text{ parts are girls}$$

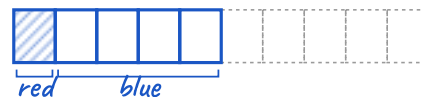
$$\text{Answer } \frac{7}{10}$$

14

The ratio of red cars to blue cars is 1 : 4. There are 20 cars.

(a) What fraction of the cars are red?

(b) How many cars are red?



$$(a) \frac{1}{5}$$

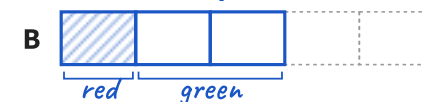
$$(b) 20 \div 5 = 4 \text{ cars}$$

15

Bag A: the ratio of red sweets to green sweets is 1 : 3.

Bag B: $\frac{1}{3}$ of the sweets are red.

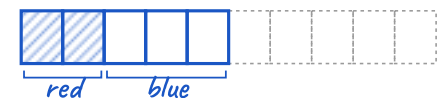
Which bag has the bigger fraction of red sweets?



$$\text{Answer } \text{Bag B: } \frac{1}{3} > \frac{1}{4}$$

16

The ratio of red to blue counters is 2 : 3. Mo says $\frac{2}{3}$ of the counters are red. What has he done wrong?



The bottom number should be

$$\text{all the parts. } 2 + 3 = 5$$

$$\text{Right answer } \frac{2}{5}$$