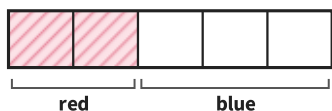


1

The ratio of red to blue is 2 : 3.
What fraction are red?

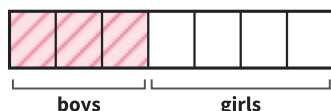


Count all the parts first.

$$\frac{2}{5}$$

2

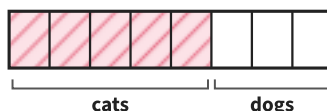
The ratio of boys to girls is 3 : 4.
What fraction are girls?



$$\frac{4}{7}$$

3

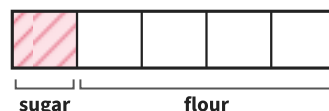
The ratio of cats to dogs is 5 : 3.
What fraction are cats?



$$\frac{5}{8}$$

4

The ratio of sugar to flour is 1 : 4.
What fraction are flour?

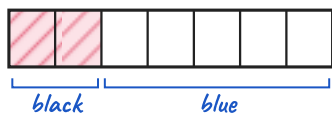


$$\frac{4}{5}$$

5

Notice the change!

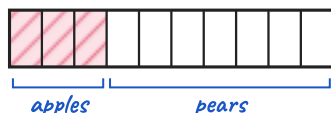
$\frac{2}{7}$ are black. The rest are blue.
Write the ratio of black to blue.



$$2 : 5$$

6

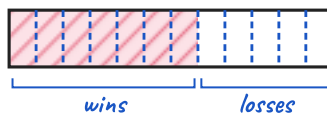
$\frac{3}{10}$ are apples. The rest are pears.
Write the ratio of apples to pears.



$$3 : 7$$

7

The ratio of wins to losses is 7 : 5.
What fraction are losses?



Answer $\frac{5}{12}$

8

The ratio of red to blue to green is 1 : 2 : 3.
What fraction are blue?



Answer $\frac{2}{6} = \frac{1}{3}$

Ratios and Fractions further practice

9

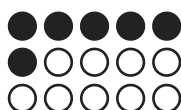
At a cinema, the ratio of adults to teenagers to children in the audience is 3 : 5 : 4. What fraction of the audience are children? Give your answer in its simplest form.

$$3 + 5 + 4 = 12 \text{ parts, } \frac{4}{12}$$

Answer $\frac{1}{3}$

10

(a) Write the ratio of black counters to white counters in its simplest form.
(b) What fraction of the counters are black?



$$6 : 9, 6 \text{ out of } 15$$

(a) $2 : 3$

(b) $\frac{2}{5}$

11

A wall is covered in 96 tiles. Blue tiles and white tiles are in the ratio 5 : 3.
(a) What fraction of the tiles are white?
(b) How many white tiles are there?

$$96 \div 8 = 12, 3 \times 12$$

(a) $\frac{3}{8}$

(b) 36

12

35% of the trees in a wood are oak. The rest are beech. Write the ratio of oak trees to beech trees in its simplest form.

$$100 - 35 = 65, 35 : 65$$

Answer $7 : 13$

13

In bag A, red sweets and green sweets are in the ratio 2 : 3. In bag B, red sweets and green sweets are in the ratio 3 : 5. Which bag has the greater fraction of red sweets? Show how you know.

$$A: \frac{2}{5} = \frac{16}{40}, B: \frac{3}{8} = \frac{15}{40}$$

Answer Bag A

14

In a year group, $\frac{1}{4}$ of the pupils walk to school, $\frac{1}{3}$ come by bus and the rest come by car. Write the ratio walk : bus : car in its simplest form.

$$\frac{3}{12}, \frac{4}{12}, \frac{5}{12}$$

Answer $3 : 4 : 5$

15

$\frac{3}{7}$ of the pupils in a class are boys. The rest are girls. There are 4 more girls than boys. How many pupils are in the class?

$$\text{boys : girls} = 3 : 4, 1 \text{ part} = 4, 7 \times 4$$

Answer 28 pupils

16

A rescue centre has only cats and dogs. The ratio of cats to dogs is 2 : 3. Zoe says $\frac{2}{3}$ of the animals are cats. Is she right? Explain.

$$2 + 3 = 5 \text{ parts, } 2 \text{ of the } 5 \text{ parts are cats}$$

Answer No, $\frac{2}{5}$ are cats