

Fractions of amounts

STS

Look at the number

Find the denominator

Divide the whole number by the denominator

Multiply the answer by the numerator!

Mild

$\frac{1}{3}$ of 27	$\frac{1}{2}$ of 70
$\frac{1}{4}$ of 60	$\frac{1}{4}$ of 200
$\frac{1}{10}$ of 60	$\frac{1}{5}$ of 5
$\frac{1}{2}$ of 74	$\frac{1}{10}$ of 40
$\frac{1}{3}$ of 36	$\frac{1}{3}$ of 33
$\frac{1}{5}$ of 65	$\frac{1}{5}$ of 25
$\frac{1}{4}$ of 56	$\frac{1}{4}$ of 36

HOT

1. In a flower shop, $\frac{7}{12}$ of the tulips are red.

If there are 805 red tulips, how many tulips are there in total in the shop?

2. In the local town, $\frac{6}{8}$ of the houses have a green front door.

If there are 768 green front doors, how many houses are there in the town in total?

3. In the crowd of spectators at a football match, $\frac{3}{4}$ of the people have scarves on.

If there are 1644 people wearing scarves, how many people are there in total watching the match?

4. In a car park, $\frac{4}{7}$ of the vehicles have a sun roof.

If there are 1548 vehicles with sun roofs, how many vehicles in total are there in the car park?

5. In a crate of marbles, $\frac{2}{3}$ of the marbles are blue.

If there are 1578 blue marbles, how many marbles are there in the crate in total?

6. Daniel swam $\frac{9}{10}$ of the distance needed to receive his next swimming badge.

If he swam 4950 metres, what was the total distance needed to receive the badge?

Spicy

$$\frac{2}{3} \text{ of } 21\text{m} =$$

$$(b) \frac{3}{4} \text{ of } \text{£}24 =$$

$$(c) \frac{4}{5} \text{ of } \$25 =$$

$$\frac{5}{6} \text{ of } 36\text{cm} =$$

$$(e) \frac{2}{3} \text{ of } 30\text{km} =$$

$$(f) \frac{3}{8} \text{ of } \text{£}32 =$$

$$\frac{2}{5} \text{ of } 35\text{m} =$$

$$(g) \frac{7}{8} \text{ of } \text{£}40 =$$

$$(i) \frac{2}{9} \text{ of } \text{£}72 =$$

Fractions of amounts

Challenge questions!

Reasoning 1

Sam and Joe are collecting football cards.
The album holds 360 cards.

Sam: I have filled $\frac{5}{6}$ of the album.

Joe: I have filled $\frac{2}{3}$ of the album.

Who has the most cards?
Convince me.

When would you use fractions of amounts in real life?
How many examples can you give?

