

# Day 2 Maths Starter

True or False ?

Improper fractions to mixed numbers

$$\frac{27}{3} = 2\frac{7}{3}$$

# False

27 thirds will make 9 wholes.

Third	Third	Third	1
			2
			3
			4
			5
			6
			7
			8
			9

# Day 2 Maths: Finding fractions of an amount

Video Link: <https://vimeo.com/480708541>

Use this help sheet if you get stuck 😊

Slide 4 is aimed at 1 star.

Slide 5 has the answers to 1 star.

Slide 6 is aimed at 2 star.

Slide 7 has the answers to 2 star.

Even if you are attempting 2 star, it might be a good idea to attempt a few questions from 1 star first.

## Finding Fractions of Amounts

To find the fraction of an amount you need to divide your number by the **denominator**, then multiply your answer by the **numerator**.

$$\frac{2}{6} \text{ of } 72$$
$$\div$$

72 divided by 6 = 12

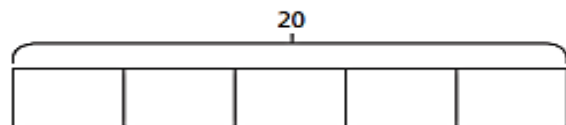
Next, I need to multiply my answer by the **numerator**.

$$12 \times 2 = 24$$

2 of 72 is therefore 24!

6

1



a) Shade  $\frac{1}{5}$  of the bar model.

b) What is  $\frac{1}{5}$  of 20?

2

Use your times tables knowledge to solve the calculations.

a)  $\frac{1}{3}$  of 12      c)  $\frac{1}{5}$  of 35 m      e)  $\frac{1}{12}$  of 60

b)  $\frac{1}{4}$  of £20      d)  $\frac{1}{10}$  of 80 cm      f)  $\frac{1}{7}$  of 84 kg

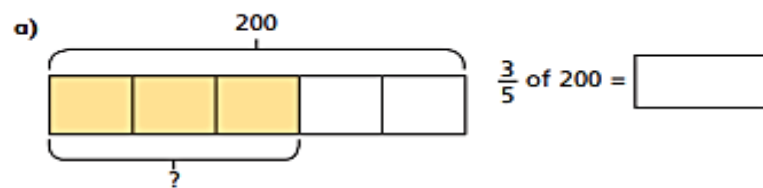
Now use your answers to solve these calculations.

a)  $\frac{2}{3}$  of 12      c)  $\frac{3}{5}$  of 35 m      e)  $\frac{11}{12}$  of 60

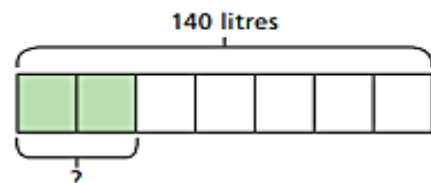
b)  $\frac{3}{4}$  of £20      d)  $\frac{7}{10}$  of 80 cm      f)  $\frac{6}{7}$  of 84 kg

3

Complete the calculations.

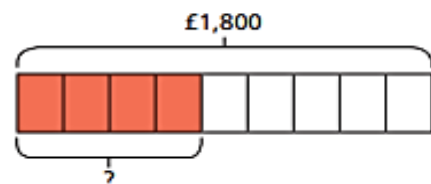


b)



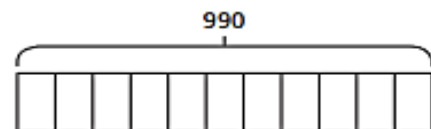
$\frac{2}{7}$  of 140 litres =

c)



$\frac{4}{9}$  of £1,800 =

d)



$\frac{3}{11}$  of 990 =



4

a) In a school of 480 pupils,  $\frac{2}{3}$  are juniors.

How many juniors are in the school?

b) A factory makes 256 cars.

$\frac{3}{8}$  are electric cars.

How many electric cars does the factory make?

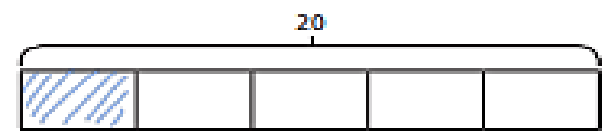
c) Brett uses  $\frac{2}{5}$  of his £180 savings to buy a train ticket.

How much of his savings does he have left?



# Fractions of an amount

1



a) Shade  $\frac{1}{5}$  of the bar model.

b) What is  $\frac{1}{5}$  of 20? 4

2

Use your times tables knowledge to solve the calculations.

a)  $\frac{1}{3}$  of 12 = 4

d)  $\frac{1}{10}$  of 80 cm = 8 cm

b)  $\frac{1}{4}$  of £20 = £5

e)  $\frac{1}{12}$  of 60 = 5

c)  $\frac{1}{5}$  of 35 m = 7 m

f)  $\frac{1}{7}$  of 84 kg = 12 kg

Now use your answers to solve these calculations.

a)  $\frac{2}{3}$  of 12 = 8

d)  $\frac{7}{10}$  of 80 cm = 56 cm

b)  $\frac{3}{4}$  of £20 = £15

e)  $\frac{11}{12}$  of 60 = 55

c)  $\frac{3}{5}$  of 35 m = 21 m

f)  $\frac{6}{7}$  of 84 kg = 72 kg



3

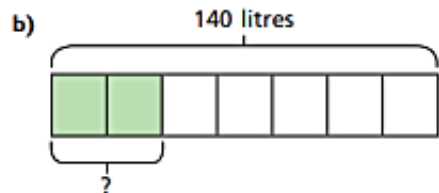
Calculate the missing values.

a) of 200 = 120

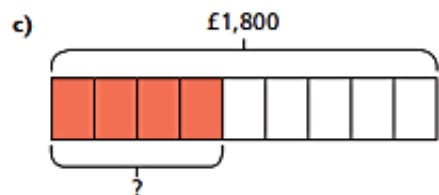
b) of 140 litres = 40 L

c) of £1,800 = £800

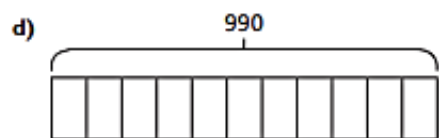
d) of 990 = 270



$\frac{2}{7}$  of 140 litres =

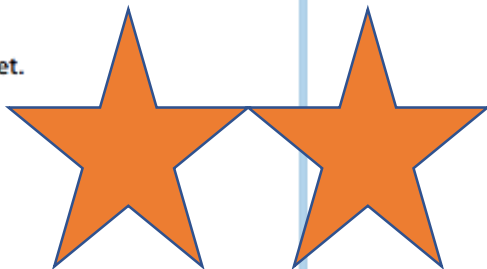


$\frac{4}{9}$  of £1,800 =



$\frac{3}{11}$  of 990 =

- 4 a) In a school of 480 pupils,  $\frac{2}{3}$  are juniors.  
How many juniors are in the school?
- b) A factory makes 256 cars.  
 $\frac{3}{8}$  are electric cars.  
How many electric cars does the factory make?
- c) Brett uses  $\frac{2}{5}$  of his £180 savings to buy a train ticket.  
How much of his savings does he have left?



5



Alex has 288 m of fence to paint.  
She paints  $\frac{3}{12}$  of the whole fence on Monday. She then paints  $\frac{1}{2}$  of what is left on Tuesday.  
How much fence does she have left to paint?

6

Fill in the missing numbers.

a)  $\frac{\square}{10}$  of \$500 = \$150

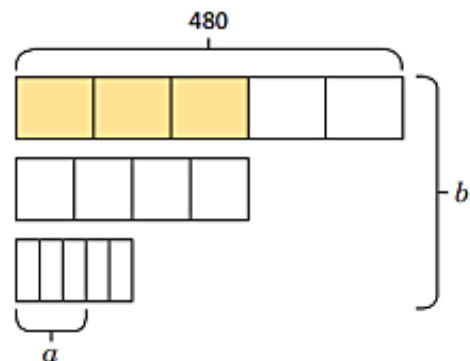
c)  $42 = \frac{\square}{100}$  of 700

b)  $\frac{\square}{4}$  of 100 kg = 75 kg

d)  $450 = \frac{\square}{20}$  of 3,000

7

Find the values of  $a$  and  $b$ .



- 4 a) In a school of 480 pupils,  $\frac{2}{3}$  are juniors.  
How many juniors are in the school?

320

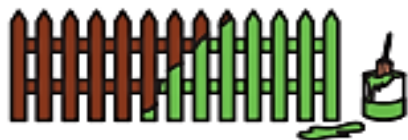
- b) A factory makes 256 cars.  
 $\frac{3}{8}$  are electric cars.  
How many electric cars does the factory make?

96

- c) Brett uses  $\frac{2}{5}$  of his £180 savings to buy a train ticket.  
How much of his savings does he have left?

£108

5



- Alex has 288 m of fence to paint.  
She paints  $\frac{3}{12}$  of the whole fence on Monday. She then paints  $\frac{1}{2}$  of what is left on Tuesday.  
How much fence does she have left to paint?

108m



- 6 Fill in the missing numbers.

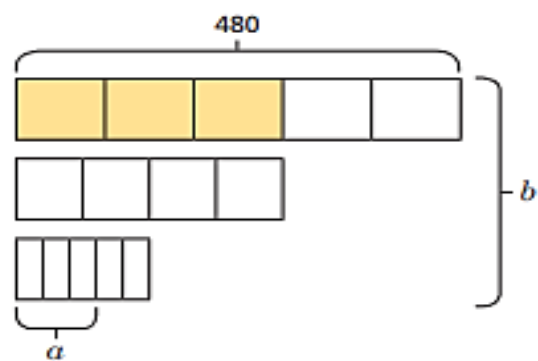
a)  $\frac{3}{10}$  of \$500 = \$150

c)  $42 = \frac{6}{100}$  of 700

b)  $\frac{3}{4}$  of 100 kg = 75 kg

d)  $450 = \frac{3}{20}$  of 3,000

- 7 Find the values of  $a$  and  $b$ .



$a = 86.4$

$b = 912$



Put your learning to the test...

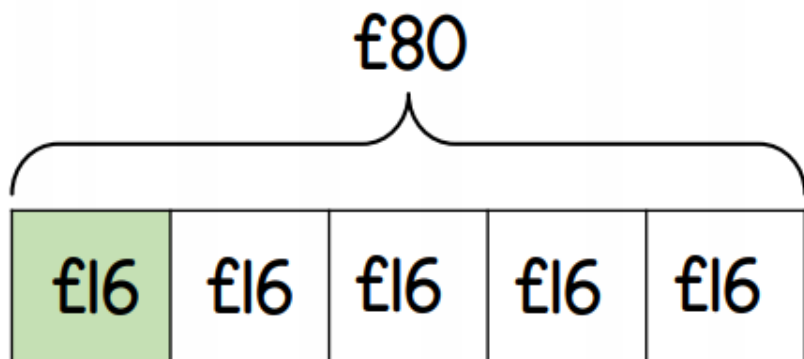
True or False ?

Fraction of an amount

$\frac{1}{5}$  of £80 is equal to  $\frac{2}{5}$  of £160



False



$$\frac{1}{5} \text{ of } £80 = £16$$

$$\frac{2}{5} \text{ of } £160 = £64$$

