

## To know how to find a fraction of an amount

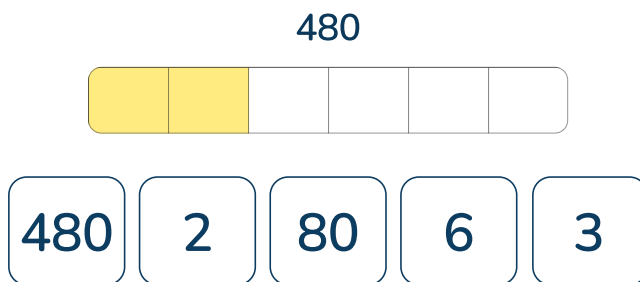
1 Draw a bar model to find:

a  $\frac{1}{9}$  of 81

b  $\frac{5}{6}$  of 48

c  $\frac{7}{11}$  of 121

d Write a calculation to match this bar model using the number cards.



e Complete these related facts. What do you notice?

$\frac{1}{6}$  of 72

$\frac{1}{3}$  of 72

$\frac{1}{9}$  of 72

$\frac{1}{18}$  of 72

2 Convert these units of measurement

a 1 m = .....cm

1 l = .....ml

1 kg = .....g

b 2.5 m = .....cm

3.7 l = .....ml

2.05 kg = .....g

Use bar models to help you calculate:

c  $\frac{4}{5}$  of 1m

d  $\frac{5}{7}$  of 2.8kg

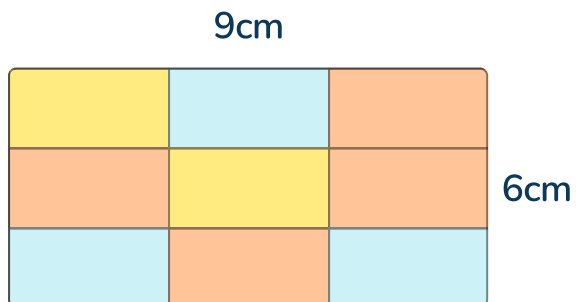
e  $\frac{4}{9}$  of 72m

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- 3** **a** Find 5 different ways to complete this calculation.  
The fraction must be a proper fraction.

3	of	=	36

- b** Find the area of each colour in the rectangle



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Question Number	Question	Answer
1	Draw a bar model to find: a) $\frac{1}{9}$ of 81 b) $\frac{5}{6}$ of 48 c) $\frac{7}{11}$ of 121 d) Write a calculation to match this bar model using the number cards. e) Complete these related facts. What do you notice?	a) $\frac{1}{9}$ of 81 = 9 b) $\frac{5}{6}$ of 48 = 40 c) $\frac{7}{11}$ of 121 = 77 d) $\frac{2}{6}$ of 480 = 160 e) $\frac{1}{6}$ of 72 = 12 $\frac{1}{3}$ of 72 = 24 $\frac{1}{9}$ of 72 = 8 $\frac{1}{18}$ of 72 = 4 Example observations. $\frac{1}{3}$ of 72 is double $\frac{1}{6}$ of 72 because $\frac{1}{3}$ is equivalent to $\frac{2}{6}$ $\frac{1}{3}$ of 72 is 3 x $\frac{1}{9}$ of 72 because $\frac{1}{3}$ is equivalent to $\frac{3}{9}$
2	a and b) Convert these units of measurement. c) $\frac{4}{5}$ of 1m d) $\frac{5}{7}$ of 2.8kg e) $\frac{4}{9}$ of 72m	a) 1m = 100cm 1 l = 1,000ml 1kg = 1,000g b) 2.5m = 250cm 3.7 l = 3,700ml 2.05kg = 2,050g c) $\frac{4}{5}$ of 1m = $\frac{4}{5}$ of 100cm = 80cm or 0.8m d) $\frac{5}{7}$ of 2.8kg = $\frac{5}{7}$ of 2,800g = 2,000g or 2kg e) $\frac{4}{9}$ of 72m = 32m
3	a) Find 5 different ways to complete this calculation. The fraction must be a proper fraction. b) Find the area of each colour in the rectangle.	a) Any fraction of the form: $\frac{3}{n}$ of $12n = 36$ will work. For example: $\frac{3}{4}$ of 48 = 36; $\frac{3}{5}$ of 60 = 36; $\frac{3}{6}$ of 72 = 36; $\frac{3}{7}$ of 84 = 36; $\frac{3}{8}$ of 96 = 36; $\frac{3}{9}$ of 108 = 36; $\frac{3}{10}$ of 120 = 36; $\frac{3}{11}$ of 132 = 36; $\frac{3}{12}$ of 144 = 36 b) Area of the rectangle = 9 cm x 6 cm = 54 cm <sup>2</sup> Yellow = $\frac{2}{9}$ $\frac{2}{9}$ of 54 cm <sup>2</sup> = 12 cm <sup>2</sup> Blue = $\frac{3}{9}$ $\frac{3}{9}$ of 54 cm <sup>2</sup> = 18 cm <sup>2</sup> Orange = $\frac{4}{9}$ $\frac{4}{9}$ of 54 cm <sup>2</sup> = 24 cm <sup>2</sup>