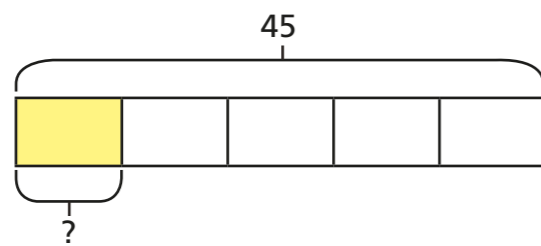


# Fractions of an amount

1 Annie and Mo are finding fractions of amounts.

a) Annie is trying to find  $\frac{1}{5}$  of 45

She draws this bar model.

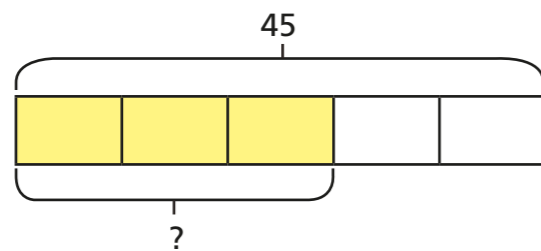


How does the bar model represent the calculation?

What is  $\frac{1}{5}$  of 45?



b) Mo is trying to find  $\frac{3}{5}$  of 45



How does the bar model represent the calculation?

What is  $\frac{3}{5}$  of 45?



c) What is the same and what is different about Mo and Annie's questions?



2 Complete the calculations.

a)  $\frac{1}{3}$  of 27 =     b)  $\frac{1}{3}$  of 72 =     c)  $\frac{1}{3}$  of 90 =

$\frac{2}{3}$  of 27 =      $\frac{1}{6}$  of 72 =      $\frac{2}{6}$  of 90 =

$\frac{3}{3}$  of 27 =      $\frac{1}{12}$  of 72 =      $\frac{3}{9}$  of 90 =

What patterns do you notice?

3 Match the calculations to the correct amounts.

$\frac{5}{8}$  of 48

32

$\frac{2}{3}$  of 48

40

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

30

$\frac{3}{4}$  of 48

36

4 Write  $<$ ,  $>$  or  $=$  to compare the calculations.

- a)  $\frac{5}{7}$  of 56   $\frac{5}{8}$  of 56      c)  $\frac{2}{3}$  of 63   $\frac{5}{8}$  of 64
- b)  $\frac{4}{7}$  of 56   $\frac{5}{8}$  of 56      d)  $\frac{7}{10}$  of 350   $\frac{5}{7}$  of 350

5 165 children and adults go on a school trip.  
Two thirds of the people are children.

a) How many adults are on the school trip?

b)  $\frac{3}{5}$  of the children are boys.

How many boys are on the school trip?

c)  $\frac{7}{10}$  of the children have an apple for lunch.

How many children do **not** have an apple for lunch?

6 Tick the odd one out.

$\frac{3}{4}$ of 80	$\frac{3}{8}$ of 160	$\frac{2}{3}$ of 90	$\frac{3}{4}$ of 100
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Explain your choice.

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7 320 people were asked about their favourite flavour of ice cream.  
Here is a pictogram showing the results.

vanilla	
strawberry	
chocolate	
mint choc chip	

a) How many people chose mint choc chip?

b) How many more people chose vanilla than chocolate?

