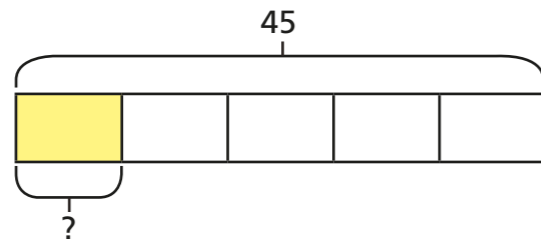


Fractions of an amount

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.

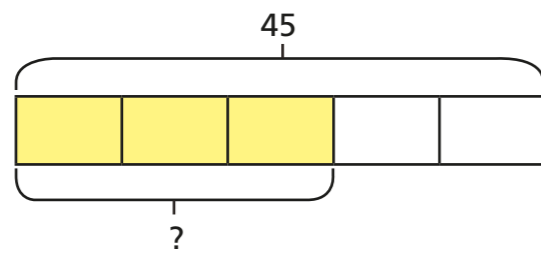


How does the bar model represent the calculation?

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

9

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?

27

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 = 9 b) $\frac{1}{3}$ of 72 = 24 c) $\frac{1}{3}$ of 90 = 30

$\frac{2}{3}$ of 27 = 18 $\frac{1}{6}$ of 72 = 12 $\frac{2}{6}$ of 90 = 30

$\frac{3}{3}$ of 27 = 27 $\frac{1}{12}$ of 72 = 6 $\frac{3}{9}$ of 90 = 30

What patterns do you notice?

3 Match the calculations to the correct amounts.

| | | | |
|---------------------|---------------------|---------------------|---------------------|
| $\frac{5}{8}$ of 48 | $\frac{2}{3}$ of 48 | $\frac{5}{6}$ of 48 | $\frac{3}{4}$ of 48 |
| 32 | 40 | 30 | 36 |

Hand-drawn blue lines connect the calculations to the amounts: $\frac{5}{8}$ of 48 to 30, $\frac{2}{3}$ of 48 to 32, $\frac{5}{6}$ of 48 to 36, and $\frac{3}{4}$ of 48 to 40.

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?

55

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

How many boys are on the school trip?

66

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

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

33





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 |
|---------------------|----------------------|---------------------|----------------------|

Explain your choice.

Various answers.

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?

112

b) How many more people chose vanilla than chocolate?

32

