Templars Primary School Knowledge Organiser

Year 6 Percentages

Key Vocabulary

- percent
- discount
- equivalent
- convert
- compare
- order
- whole
- order
- decimal
- representation
- context
- bar model

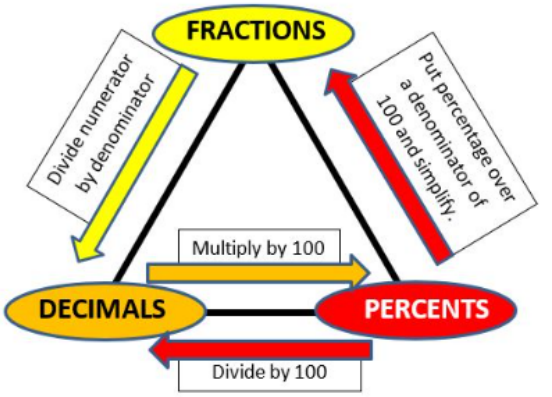
Equivalents

Percent means 'number of parts per hundred' or 'out of 100'. There are equivalences between simple fractions, decimals and percentages. We can convert fractions, decimals and percentages.

percentage	fraction	decimal
30%	$\frac{3}{10}$	0.3

to go from a fraction to a percentage we can convert to a decimal first

3/5 → 0.6 → 60%



Converting, ordering and comparing

When answering fraction, decimal and percentages order and compare questions, converting each number to the same form is the easiest way to compare them.

Use <, > or = to complete the statements.

0.36 < 40%

$\frac{7}{10}$ > 0.07

0.4 > 25%

0.4 > $\frac{1}{4}$

Use > < and = to compare

Step 1: change to the same number form

Order from smallest to largest:

50%	$\frac{2}{5}$	0.45	$\frac{3}{10}$	54%	0.05
50%	**40%**	**45%**	**3%**	**54%**	**5%**

e.g.

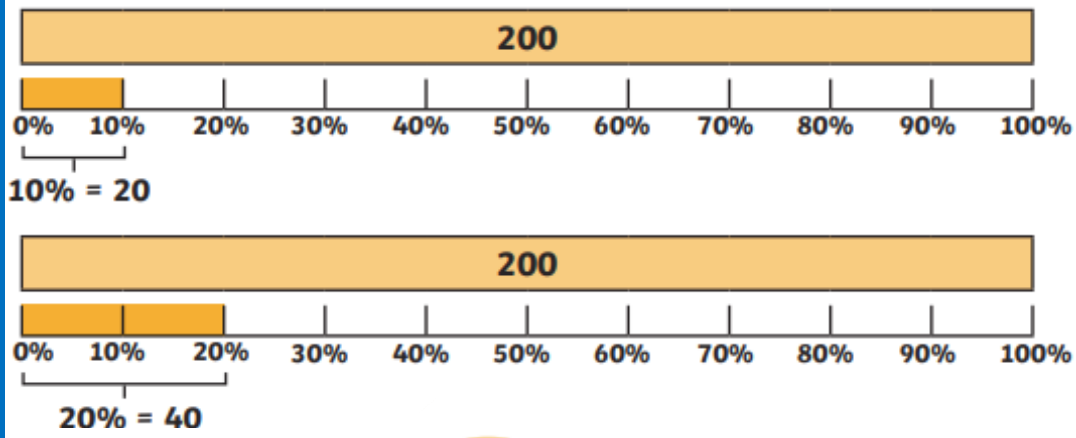
Order smallest to largest:

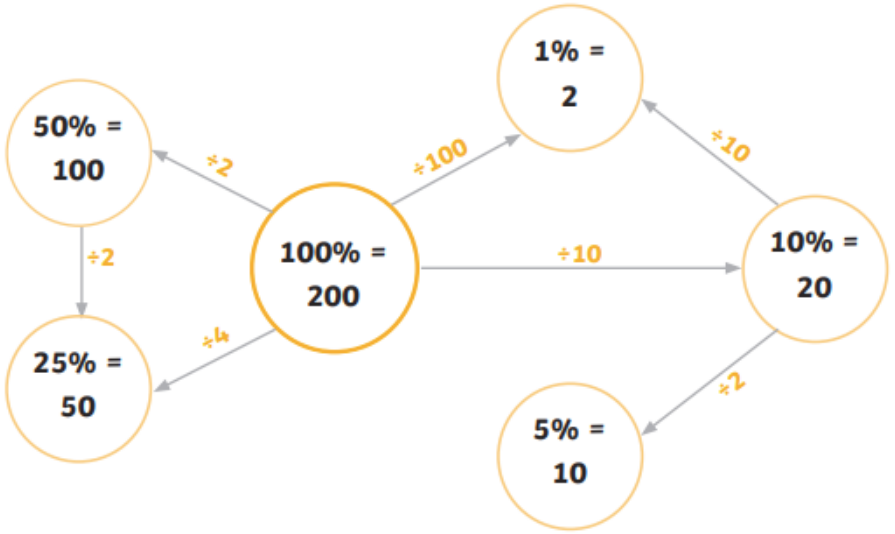
3/10, 0.05, 2/5, 0.45, 50%, 54%

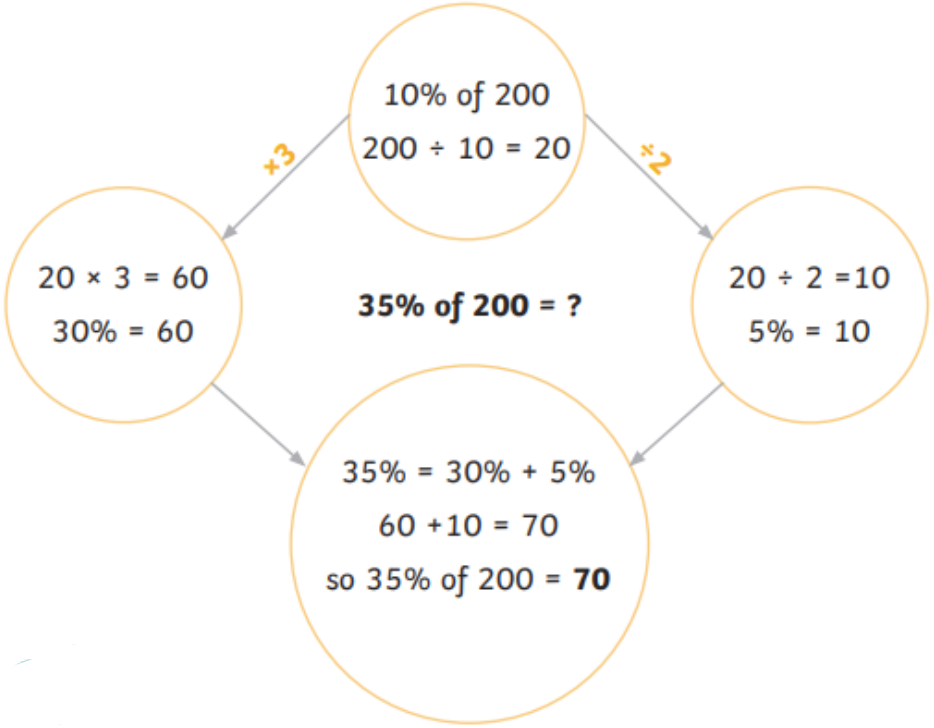
Conversions must be **put back into the original form** to answer an ordering question

Percentage of amounts

50% = $\frac{1}{2}$ so we can divide by 2	10% = $\frac{1}{10}$ so we can divide by 10	25% = $\frac{1}{4}$ so we can divide by 4	1% = $\frac{1}{100}$ so we can divide by 100

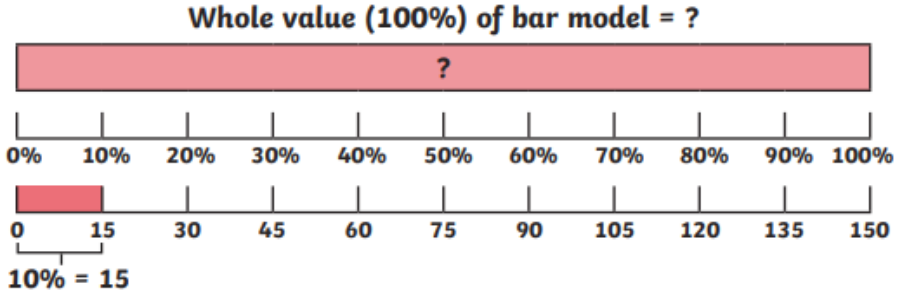






Missing values

We can use our understanding of percentages to find the missing whole or a missing percentage when the other values are given. It can be useful to draw a bar model to help see the relationship between the given percentage or amount and the whole.



10% = 15 **10% x 10 = 100%** **so 15 x 10 = 150**