

YR6 Knowledge Organiser - Percentages

Key Concepts

- Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.

Key Vocabulary

- percentage
- decimal
- fraction
- equivalent
- convert
- amount
- value



Convert Fractions to Percentages

Percent means 'out of 100'. We can find equivalent fractions with a denominator of 100 to help us convert fractions to percentages.

$$\frac{7}{25} = \frac{28}{100} = 28\%$$

$$\frac{18}{50} = \frac{36}{100} = 36\%$$

Remember, we need to multiply the numerator and the denominator by the same amount.

Equivalent FDP

Now, we can use our knowledge of equivalent fractions and decimals to find equivalent percentages.

$$0.29 = \frac{29}{100} = 29\%$$

$$0.07 = \frac{7}{100} = 7\%$$

Order FDP

We can convert between fractions, decimals and percentages to compare and order them.



"Convert each number to the same form so that you can put them in order more easily."

Let's order the amounts from smallest to largest: using percentages:

$$\frac{4}{5}$$

$$0.9$$

$$65\%$$

$$\frac{4}{5} = \frac{80}{100} = 80\%$$

$$0.9 = 90\%$$

$65\% < 80\% < 90\%$ so the correct order is:

$$65\%$$

$$\frac{4}{5}$$

$$0.9$$

Percentage of an Amount

We can apply our knowledge of fraction equivalences to find percentages of amounts.

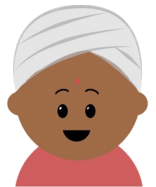
50% is equivalent to one half, so to find 50% of an amount, we divide by 2.

25% is equivalent to one quarter, so to find 25% of an amount, we divide by 4.

10% is equivalent to one tenth, so to find 10% of an amount, we divide by 10.

How would you find 5% of 240?

"To find 5% of 240, we first find 10% ($240 \div 10 = 24$) then divide by 2 ($24 \div 2$). To find 15% of an amount, we can add 10% and 5% together."



Find Missing Values

Now, we can find the missing whole when other values are given. Bar models can be used to help.

