

Recognising Equivalent Fractions

Chapter 8: Fractions in Disguise · Topic 1

Key Concept

Being able to quickly recognise common equivalences ($\frac{1}{4}=25\%$, $\frac{1}{2}=50\%$, $\frac{3}{4}=75\%$, $\frac{1}{5}=20\%$) speeds up mental calculations significantly, especially useful for everyday tasks like calculating discounts or understanding statistics presented in different formats. Recognising these different 'disguises' of the same value helps students choose whichever form is most convenient for a given calculation, rather than being restricted to only one representation.

Quick Revision Notes

- Fractions, decimals, and percentages can represent the same value in different forms.
- Common equivalences: $\frac{1}{4}=25\%$, $\frac{1}{2}=50\%$, $\frac{3}{4}=75\%$, $\frac{1}{5}=20\%$.
- Recognising these equivalences speeds up mental calculations.
- Choosing the most convenient form (fraction, decimal, or percentage) simplifies problem-solving.

Practice Questions

- 1 Convert 0.6 into a fraction and a percentage.
- 2 Convert $\frac{3}{5}$ into a decimal and a percentage.
- 3 Arrange $\frac{1}{2}$, 60%, and 0.45 in increasing order.