

Converting Between Forms

Chapter 8: Fractions in Disguise · Topic 2

Key Concept

For example, converting $\frac{7}{20}$ to a percentage: $\frac{7}{20} \times 100 = 35\%$. Converting 35% to a decimal: $\frac{35}{100} = 0.35$. Converting 0.35 back to a fraction: $\frac{35}{100}$, which simplifies to $\frac{7}{20}$ by dividing both numerator and denominator by their HCF (5), confirming the conversions are all consistent and reversible representations of the exact same value.

Quick Revision Notes

- Fraction to percentage: multiply by 100.
- Percentage to decimal: divide by 100.
- Decimal to fraction: write over the appropriate power of 10, then simplify.
- All three forms (fraction, decimal, percentage) can be converted between each other consistently.

Practice Questions

- 1 Convert $\frac{7}{20}$ to a percentage.
- 2 Convert 0.125 into a fraction, simplified to lowest terms.
- 3 Convert 45% into both a fraction and a decimal.