Familiar fraction-decimal-percentage equivalents

6 questions | 10 marks

Equivalent correct methods earn the corresponding marks.

1. Write $\frac{1}{2}$ as a decimal and percentage. [1 mark]

$\frac{1}{2} = \frac{50}{100}$.

Answer: 0.5 and 50%

2. Write $\frac{1}{4}$ as a decimal and percentage. [1 mark]

$\frac{1}{4} = \frac{25}{100}$.

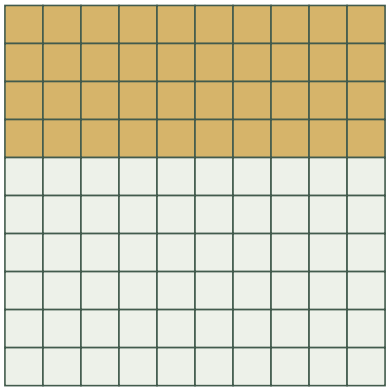
Answer: 0.25 and 25%

3. Write 0.7 as a fraction with denominator ten and as a percentage. [2 marks]

Seven tenths equals seventy hundredths.

Answer: $\frac{7}{10}$ and 70%

4. Write the shaded share as a decimal and percentage. [2 marks]



100 equal squares = one whole

Forty of the hundred equal squares are shaded.

Answer: 0.4 and 40%

5. Write 20% as a fraction in simplest form and as a decimal. [2 marks]

$\frac{20}{100} = \frac{1}{5}$, and twenty hundredths is 0.20.

Answer: $\frac{1}{5}$ and 0.2

6. Ari says $\frac{1}{4}$ and 0.25 are different amounts because one uses a slash. Explain why Ari is mistaken. [2 marks]

Splitting each quarter into twenty-five pieces gives a hundred pieces in the whole. One quarter contains twenty-five of them.

Answer: They name the same amount: $\frac{1}{4} = \frac{25}{100} = 0.25$.