Convert fractions to decimals and percentages without a calculator

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Maths

Convert fractions to decimals and percentages without a calculator

1. Write the missing number for each equivalent fraction.

a) $\dfrac{23}{50} = \dfrac{}{100}$

d) $\dfrac{9}{10} = \dfrac{}{100}$

b) $\dfrac{12}{25} = \dfrac{}{100}$

e) $\dfrac{4}{5} = \dfrac{}{100}$

c) $\dfrac{18}{20} = \dfrac{}{100}$

f) $\dfrac{7}{5} = \dfrac{}{100}$

2. Write each fraction as a percentage and a decimal (use q1 to help you)

a) $\dfrac{23}{50}$

d) $\dfrac{9}{10}$

b) $\dfrac{12}{25}$

e) $\dfrac{4}{5}$

c) $\dfrac{18}{20}$

f) $\dfrac{7}{5}$

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3. Write each of the fractions as percentages and decimals.

a) $\dfrac{3}{10}$

d) $\dfrac{3}{4}$

b) $\dfrac{7}{20}$

e) $\dfrac{22}{40}$
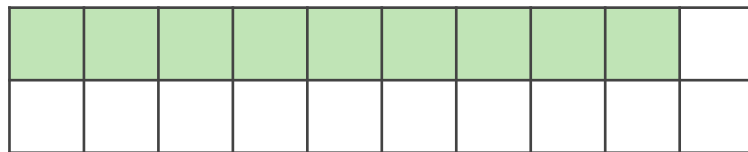
c) $\dfrac{3}{5}$

f) $\dfrac{9}{60}$

4. Amy answers $\dfrac{13}{20}$ questions correctly in her maths test.
What percentage of the questions did she get correct?

5. This shape is $\dfrac{9}{20}$ shaded.

What percentage is not shaded?

Answers

Convert fractions to decimals and percentages without a calculator

1. Write the missing number for each equivalent fraction.

a) $\frac{23}{50} = \frac{46}{100}$

d) $\frac{9}{10} = \frac{90}{100}$

b) $\frac{12}{25} = \frac{48}{100}$

e) $\frac{4}{5} = \frac{80}{100}$

c) $\frac{18}{20} = \frac{90}{100}$

f) $\frac{7}{5} = \frac{140}{100}$

2. Write each fraction as a percentage and a decimal (use q1 to help you)

a) $\frac{23}{50} = 46\% = 0.46$

d) $\frac{9}{10} = 90\% = 0.9$

b) $\frac{12}{25} = 48\% = 0.48$

e) $\frac{4}{5} = 80\% = 0.8$

c) $\frac{18}{20} = 90\% = 0.9$

f) $\frac{7}{5} = 140\% = 1.4$

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3. Write each of the fractions as percentages and decimals.

a) $\frac{3}{10}$ | 30% | 0.3

d) $\frac{3}{4}$ | 75% | 0.75

b) $\frac{7}{20}$ | 35% | 0.35

e) $\frac{22}{40}$ | 55% | 0.55

c) $\frac{3}{5}$ | 60% | 0.6

f) $\frac{9}{60}$ | 15% | 0.15
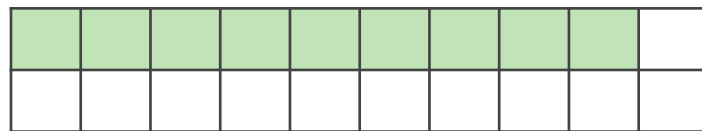
4. Amy answers $\frac{13}{20}$ questions correctly in her maths test.

What percentage of the questions did she get correct?

$$\frac{13}{20} = \frac{65}{100} = 65\%$$

5. This shape is $\frac{9}{20}$ shaded. What percentage is unshaded?

55% unshaded