

Fractions - Four Operations

For AQA GCSE Mathematics (8300) • Foundation tier

Name _____

Total marks: **28**

Answer **all** questions in the spaces provided. Show your working: marks are given for correct method. Do **not** use a calculator.

1 Work out

(a) $\frac{3}{4} - \frac{2}{5}$

[1 mark]

Answer _____

(b) $\frac{5}{6} \times \frac{9}{10}$

[1 mark]

Answer _____

(c) $\frac{4}{9} \div \frac{2}{3}$

[1 mark]

Answer _____

2 Circle the reciprocal of $2\frac{1}{2}$

[1 mark]

$-2\frac{1}{2}$

$\frac{2}{5}$

$\frac{5}{2}$

$\frac{1}{2}$

- 3** Work out $3\frac{2}{3} + 1\frac{3}{4}$
Give your answer as a mixed number.

[3 marks]

Answer _____

- 4** Work out $3\frac{1}{3} - 1\frac{4}{5}$

[3 marks]

Answer _____

- 5** Work out $2\frac{2}{5} \times 1\frac{7}{8}$
Give your answer in its simplest form.

[3 marks]

Answer _____

- 6** Work out $3\frac{3}{4} \div 1\frac{1}{2}$

[3 marks]

Answer _____

7 Show that $\left(1\frac{1}{2}\right)^2 - \frac{3}{4} = 1\frac{1}{2}$

[2 marks]

8 A rectangle has sides of length $2\frac{1}{4}$ m and $3\frac{1}{3}$ m.

(a) Work out the area of the rectangle.

[2 marks]

Answer _____ m²

(b) Work out the perimeter of the rectangle.

[3 marks]

Answer _____ m

9 Work out $\frac{1}{\frac{1}{3} + \frac{1}{4}}$

[2 marks]

Answer _____

- 10** A water tank is $\frac{2}{5}$ full.
42 litres of water are added.
The tank is now $\frac{3}{4}$ full.
Work out the capacity of the tank.

[3 marks]

Answer _____ litres