

Fractions, Decimals and Percentages 2

ANSWERS

No calculator | 30 minutes | Total marks: 30

Name Class

1 Work out

(a) 6×0.4

Answer 2.4 (1) [1 mark]

(b) 0.3×0.2

Answer 0.06 (1) [1 mark]

(c) $4.8 \div 4$

Answer 1.2 (1) [1 mark]

(d) $6 \div 0.2$

$60 \div 2$ (1)

Answer 30 (1) [2 marks]

2 (a) Write $\frac{11}{4}$ as a mixed number.

Answer $2\frac{3}{4}$ (1) [1 mark]

(b) Write $3\frac{1}{2}$ as an improper fraction.

Answer $\frac{7}{2}$ (1) [1 mark]

3

Work out

(a) $\frac{3}{5} + \frac{1}{5}$

Answer $\frac{4}{5}$ (1)

[1 mark]

(b) $\frac{1}{2} + \frac{1}{3}$

$\frac{3}{6} + \frac{2}{6}$ (1)

Answer $\frac{5}{6}$ (1)

[2 marks]

(c) $\frac{3}{4} - \frac{1}{8}$

$\frac{6}{8} - \frac{1}{8}$ (1)

Answer $\frac{5}{8}$ (1)

[2 marks]

4

Work out

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

Answer $\frac{8}{15}$ (1)

[1 mark]

(b) $\frac{3}{4} \div \frac{1}{2}$

$\frac{3}{4} \times \frac{2}{1}$ (1)

Answer $\frac{6}{4}$ or $1\frac{1}{2}$ (1)

[2 marks]

5

Complete the table.

Fraction	Decimal	Percentage
$\frac{3}{4}$	0.75	75%
$\frac{2}{5}$	0.4	40% (1)
$\frac{7}{20}$	0.35	35% (1)
$\frac{2}{25}$	0.08 (1)	8%

[3 marks]

6

Work out

(a) 10% of 80

Answer 8 (1) [1 mark]

(b) 25% of 60

Answer 15 (1) [1 mark]

(c) 35% of 200

 $10\% = 20, \text{ so } 30\% = 60 \text{ and } 5\% = 10 \text{ (1)}$ Answer 70 (1) [2 marks]**7**

Sam scores 18 out of 20 in a test.

Write his score as a percentage.

$$\frac{18}{20} = \frac{90}{100} \text{ (1)}$$

Answer 90 (1) % [2 marks]**8**

(a) Increase £40 by 10%

 $10\% \text{ of } 40 = 4 \text{ (1)}$ Answer £ 44 (1) [2 marks]

(b) Decrease 60 by 25%

 $25\% \text{ of } 60 = 15 \text{ (1)}$ Answer 45 (1) [2 marks]

9

Ella puts £200 into a savings account.

The account pays 5% simple interest each year.

Work out the total interest she earns in 3 years.

$$5\% \text{ of } 200 = 10 \text{ (1)}$$

Answer £ 30 (1)

[2 marks]

Question	Topic	RAG
1	I can multiply and divide decimals	
2	I can change between mixed numbers and improper fractions	
3	I can add and subtract fractions	
4	I can multiply and divide fractions	
5	I can convert between fractions, decimals and percentages	
6	I can find a percentage of an amount	
7	I can write one number as a percentage of another	
8	I can increase and decrease by a percentage	
9	I can work out simple interest	