

Percentages

ANSWERS

Calculator | 30 minutes | Total marks: 28

Name Class

- 1 Shade 40% of this shape.



[1 mark]

- 2 Complete the table.

Fraction	Decimal	Percentage
$\frac{1}{2}$	0.5	50%
$\frac{1}{4}$	0.25	25% (1)
$\frac{7}{10}$	0.7	70% (1)
$\frac{3}{100}$	0.03 (1)	3%

[3 marks]

- 3 Write these in order of size. Start with the smallest.

30% 0.25 $\frac{1}{2}$ 0.4

$$30\% = 0.3 \quad \frac{1}{2} = 0.5 \quad (1)$$

Answer 0.25, 30%, 0.4, $\frac{1}{2}$ (1)

[2 marks]

4

(a) Work out 10% of £60

Answer £ 6 (1)

[1 mark]

(b) Work out 25% of 80 kg

Answer 20 (1)

kg

[1 mark]

(c) Work out 15% of £40

$$10\% = 4 \quad 5\% = 2 \quad (1)$$

Answer £ 6 (1)

[2 marks]

5

Work out 32% of 250

$$0.32 \times 250 \quad (1)$$

Answer 80 (1)

[2 marks]

6

A washing machine costs £300 plus VAT.

VAT is 20%

Work out the total cost of the washing machine.

$$20\% \text{ of } 300 = 60 \quad (1)$$

$$300 + 60$$

Answer £ 360 (1)

[2 marks]

7

A phone costs £200

In a sale, the price is reduced by 15%

(a) Work out 15% of £200

$$10\% = 20 \quad 5\% = 10 \quad (1)$$

Answer £ 30 (1)

[2 marks]

(b) Work out the sale price of the phone.

Answer £ 170 (1)

[1 mark]

8

Tom scores 18 out of 25 in a test.

Write his score as a percentage.

$$\frac{18}{25} \times 100 \text{ (1)}$$

Answer 72 (1) % [2 marks]

9

Ella puts £400 into a savings account.

The account pays 5% simple interest each year.

(a) Work out the interest Ella earns in one year.

$$0.05 \times 400 \text{ (1)}$$

Answer £ 20 (1) [2 marks]

(b) Work out the total interest Ella earns in 3 years.

Answer £ 60 (1) [1 mark]

10

Which is bigger, 20% of £50 or 25% of £44?

You **must** show your working.

$$20\% \text{ of } £50 = £10 \text{ (1)}$$

$$25\% \text{ of } £44 = £11 \text{ (1)}$$

Answer 25% of £44 (1) [3 marks]

11

Zara buys a table for £50

She sells it for £65

(a) Work out her profit.

Answer £ 15 (1)

[1 mark]

(b) Write her profit as a percentage of £50

$$\frac{15}{50} \times 100 \text{ (1)}$$

Answer 30 (1)

%

[2 marks]

Question	Topic	RAG
1	I can shade a percentage of a shape	
2	I can convert between fractions, decimals and percentages	
3	I can order fractions, decimals and percentages	
4	I can find a percentage of an amount without a calculator	
5	I can find a percentage of an amount with a calculator	
6	I can work out a price including VAT	
7	I can decrease an amount by a percentage	
8	I can write one number as a percentage of another	
9	I can work out simple interest	
10	I can compare percentages of amounts	
11	I can work out a percentage profit	