



Percentage of an Amount

← REVISE THIS TOPIC

1 (a) Work out 10% of 720

$$720 \div 10$$

Answer 72



1 (b) Work out 50% of 120

[1 mark]

$$120 \div 2$$

Answer 60



1 (c) Work out 1% of 800

[1 mark]

$$800 \div 100$$

Answer 8



1 (d) Work out 25% of 44

[1 mark]

$$44 \div 4$$

Answer 11



1 (e) Work out 10% of 35

[1 mark]

$$35 \div 10$$

Answer 3.5



1 (f) Work out 50% of 11

[1 mark]

$$11 \div 2$$

Answer 5.5





2 (a) Work out 20% of 300

[2 marks]

$$\begin{array}{l} \times 2 \left(\begin{array}{l} 10\% = 30 \\ 20\% = 60 \end{array} \right) \times 2 \end{array}$$

Answer

60



2 (b) Work out 5% of 260

[1 mark]

$$\div 2 \left(\begin{array}{l} 10\% = 26 \\ 5\% = 13 \end{array} \right) \div 2$$

Answer

13



2 (c) Work out 1% of 40

[1 mark]

$$40 \div 100$$

Answer

0.4



2 (d) Work out 40% of 60

[2 marks]

$$\begin{array}{l} \times 4 \left(\begin{array}{l} 10\% = 6 \\ 40\% = 24 \end{array} \right) \times 4 \end{array}$$

Answer

24



2 (e) Work out 15% of 180

[2 marks]

$$\begin{array}{r} 10\% = 18 \\ + 5\% = 9 \\ \hline 15\% = 27 \end{array}$$

Answer

27



2 (f) Work out 70% of 4100

[2 marks]

$$\begin{array}{l} \times 7 \left(\begin{array}{l} 10\% = 410 \\ 70\% = 2870 \end{array} \right) \times 7 \end{array}$$

Answer

2870





3

Work out 35% of 480

[3 marks]

$$\begin{array}{r} 10\% = 48 \\ 10\% = 48 \\ 10\% = 48 \\ + 5\% = 24 \\ \hline 35\% = 168 \end{array}$$

Answer 168



4

Work out 65% of 160

[3 marks]

$$\begin{array}{r} 50\% = 80 \\ 10\% = 16 \\ + 5\% = 8 \\ \hline 65\% = 104 \end{array}$$

Answer 104



5

Work out 22% of 30

[3 marks]

$$\begin{array}{r} 10\% = 3.0 \\ 10\% = 3.0 \\ 1\% = 0.3 \\ + 1\% = 0.3 \\ \hline 22\% = 6.6 \end{array}$$

Answer 6.6



6

Work out 95% of 6000

[3 marks]

$$\begin{array}{r} 10\% = 600 \\ 5\% = 300 \\ \hline 100\% = 6000 \\ - 5\% = 300 \\ \hline 95\% = 5700 \end{array}$$

Answer 5700





7

Work out 0.5% of 280

[2 marks]

$$\begin{array}{l} 1\% = 2.8 \\ \div 2 \quad \downarrow \div 2 \\ 0.5\% = 1.4 \end{array}$$

Answer

1.4

8

Work out 120% of 400

[3 marks]

$$\begin{array}{r} 100\% = 400 \\ 10\% = 40 \\ + 10\% = 40 \\ \hline 120\% = 480 \end{array}$$

Answer

480

9

Here are two percentage calculations.

| | |
|---|-----------|
| A | 10% of 95 |
| B | 15% of 64 |

Which calculation is greater?
You must show your working.

[4 marks]

$$10\% = 9.5$$

$$\begin{array}{r} 10\% = 6.4 \\ + 5\% = 3.2 \\ \hline 15\% = 9.6 \end{array}$$

Answer

B





10 (a) Work out 13% of 740

[2 marks]

Answer 96.2

10 (b) Work out 9% of 550

[2 marks]

Answer 49.5

10 (c) Work out 63% of 808

[2 marks]

Answer 509.04

10 (d) Work out 87% of 14700

[2 marks]

Answer 12789

10 (e) Work out 126% of 310

[2 marks]

Answer 390.6

10 (f) Work out 9.5% of 6010

[2 marks]

Answer 570.95

10 (g) Work out 13.5% of 1180

[2 marks]

Answer 159.3





11

A bag contains 300 pencils.

20% of the pencils are red.

12% of the pencils are blue.

Work out how many more red pencils there are than blue pencils.

[4 marks]

$$10\% = 30$$

$$20\% = 60$$

$$10\% = 30$$

$$1\% = 3$$

$$1\% = 3$$

$$+ \quad 1\% = 3$$

$$12\% = 36$$

$$24$$

Answer



12

Stan receives £140 for his birthday.

He spends 35% of the money and saves the rest.

Work out how much money Stan **saves**.

[3 marks]

$$10\% = 14$$

$$10\% = 14$$

$$10\% = 14$$

$$5\% = 7$$

$$35\% = 49$$

Answer £

$$91$$



13

Erica spends 2 hours revising.

She spends 40% of this time revising for maths.

Work out how many minutes Erica spends revising for maths.

[3 marks]

$$2 \times 60 = 120 \text{ minutes}$$

$$10\% = 12 \text{ mins}$$

$$40\% = 48 \text{ mins}$$

$$48$$

Answer

minutes





15

A car's fuel tank can hold a total of 60 litres of fuel.
Steve adds fuel to the fuel tank so that it is 80% full.



Each day Steve uses 15 litres of fuel to travel to work and back.
Will Steve have enough fuel to travel to work and back for the next 3 days?
You must show your working.

[4 marks]

$$\begin{array}{l} \times 8 \swarrow 10\% = 6 \quad \searrow \times 8 \\ 80\% = 48 \end{array} \qquad \begin{array}{l} 15 \times 3 = 45 \\ 48 > 45 \end{array}$$

Answer

Yes

15

Zara wins £5000
She keeps 70% for herself and shares the remainder equally between her two siblings.



Work out how much money each of Zara's siblings receives.

[4 marks]

$$\begin{array}{l} \times 7 \swarrow 10\% = £500 \quad \searrow \times 7 \\ 70\% = £3500 \\ \quad \quad \quad (Zara) \end{array} \qquad \begin{array}{r} £5000 \\ - 3500 \\ \hline 1500 \end{array} \qquad \begin{array}{r} 0750 \\ 2 \overline{) 1500} \\ \underline{2150} \\ 350 \end{array}$$

Answer £

750

16

A theatre has 900 seats.
Tickets for a show are sold for £3 each.
One night the theatre sells enough tickets to fill 95% of their seats.

Work out how much money the theatre makes from ticket sales.

[4 marks]

$$\begin{array}{l} 10\% = 90 \qquad 100\% = 900 \\ 5\% = 45 \quad - \quad 5\% = 45 \\ \hline 95\% = 855 \end{array} \qquad \begin{array}{r} 855 \\ \times 3 \\ \hline 2565 \end{array}$$

Answer £

2565





- 17 There are 850 students at a school.
- On Monday the attendance was 94%
- On Tuesday the attendance was 92%

Work out how many more students attended school on Monday than on Tuesday. [3 marks]

$$\begin{array}{r} 850 \times 0.94 = 799 \\ 850 \times 0.92 = 782 \\ \hline 17 \end{array}$$

Answer 17

- 18 A bag of flour weighs 2 kg.
- A baker uses 18% of the bag for a recipe.

Work out how much flour is left in the bag.

Give your answer in **grams**.

[4 marks]

$$\begin{array}{l} 2 \times 1000 = 2000\text{g} \\ 2000 \times 0.18 = 360 \\ 2000 - 360 = 1640 \end{array}$$

Answer 1640 grams

- 19 A rectangular wall measures 5 metres by 3 metres.
- 70% of the wall is going to be painted.

Work out the area of the wall that will be painted.

[3 marks]

$$\begin{array}{l} 5 \times 3 = 15\text{m}^2 \\ 15 \times 0.7 = 10.5 \end{array}$$

Answer 10.5 m²

