

Percentage of an Amount

For AQA GCSE Mathematics (8300) • Foundation tier

Name _____

Total marks: **24**

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

1 Work out 30% of 16 000

[2 marks]

Answer _____

2 Circle the value of 49% of 600

[1 mark]

29.4

294

300

649

3 Work out 45% of 1400

[3 marks]

Answer _____

- 4** Bryony works out 36% of 850

Here is her working.

$$10\% = 85$$

$$30\% = 255$$

$$1\% = 0.85$$

$$6\% = 5.1$$

$$36\% = 255 + 5.1 = 260.1$$

- (a) Describe the mistake Bryony has made.

[1 mark]

- (b) Work out the correct value of 36% of 850

[2 marks]

Answer _____

- 5** When Leona's phone battery is 30% charged, the phone can play music for 6 hours.
The time it can play music for is proportional to the charge in the battery.

How long can the phone play music for when the battery is 85% charged?

[3 marks]

Answer _____ hours

- 6** Owen wants to work out 4% of 2300
His method is 2300×0.4

Is his method correct?

Tick a box.

Give a reason for your answer.

[1 mark]

☐ Yes

☐ No

- 7** Kerry's take-home pay is £1600 a month.

She spends

35% of this on rent

12% of this on food.

- (a) How much does Kerry spend on rent and food altogether?

[2 marks]

Answer £ _____

- (b) Kerry saves 15% of the money she has left.
How much does she save?

[2 marks]

Answer £ _____

- 8** Three classes raise money for a charity.
They raise £420, £365 and £515
The school keeps 20% of the total for a minibus fund.
The rest of the money goes to the charity.
How much money goes to the charity?

[3 marks]

Answer £ _____

- 9** A field has an area of 1200 m^2
45% of the field is used to grow potatoes.
One third of the rest of the field is used to grow carrots.
The rest of the field is grass.
Work out the area of the field that is grass.

[4 marks]

Answer _____ m^2