

Using a Calculator

For AQA GCSE Mathematics (8300) • Foundation tier

Name _____

Total marks: **23**

Answer **all** questions in the spaces provided. Show your working: marks are given for correct method. You may use a calculator.

- 1 (a) Use your calculator to work out $\frac{\sqrt{130} + 9.6}{0.75}$
Give your answer as a decimal.
Write down your full calculator display.

[1 mark]

Answer _____

- (b) Give your answer to part (a) to 1 decimal place.

[1 mark]

Answer _____

- 2 (a) Use your calculator to work out $\sqrt{47.3 - 2.8^2}$
Write down your full calculator display.

[1 mark]

Answer _____

- (b) Give your answer to part (a) to 3 significant figures.

[1 mark]

Answer _____

3 Circle the value of 4.2^3

[1 mark]

12.6

17.64

64

74.088

4 Work out the reciprocal of 0.16

[1 mark]

Answer _____

5 (a) Rob uses his calculator to work out the total cost, in pounds, of some food.

The display shows 13.8

Write this as an amount of money.

[1 mark]

Answer £ _____

(b) Kim uses her calculator to work out the time, in hours, for a journey.

The display shows 3.4

Write this time in hours and minutes.

[1 mark]

Answer _____ hours _____ minutes

- 6 Leo wants to work out $\frac{18.6 + 7.4}{4}$
He types $18.6 + 7.4 \div 4 =$ and gets 20.45

(a) Explain the mistake Leo has made.

[1 mark]

(b) Work out the correct answer.

[1 mark]

Answer _____

- 7 Work out $\frac{(2.3 + 1.8)^3}{5.6 - 2.35}$
Give your answer to 2 decimal places.

[2 marks]

Answer _____

- 8 Work out $\sqrt[3]{9.2} \times 1.6^2$
Write down your full calculator display.

[2 marks]

Answer _____

- 9 Use your calculator to work out $\frac{5}{8} + \frac{7}{12}$
Give your answer as a mixed number.

[1 mark]

Answer _____

- 10 Ben says,
' $\sqrt{16 + 9}$ gives the same answer as $\sqrt{16} + \sqrt{9}$ '

Is Ben correct? Tick a box.
Show how you decide.

[1 mark]

☐ Yes

☐ No

- 11 Mia says,
' $\frac{17}{12}$ is closer to $\sqrt{2}$ than 1.4 is.'

Is Mia correct? Tick a box.
You must show your working.

[2 marks]

☐ Yes

☐ No

- 12** (a) Estimate the value of $\frac{58.4 \times 2.95}{4.1^2 - 6.8}$
Round each number to 1 significant figure.
You must show your working.

[2 marks]

Answer _____

- (b) Owen uses his calculator to work out the exact value.
His calculator shows 3.448661511
Use your answer to part (a) to explain why Owen must have made a mistake.

[1 mark]

- (c) Work out the value of $\frac{58.4 \times 2.95}{4.1^2 - 6.8}$
Give your answer to 1 decimal place.

[2 marks]

Answer _____