GCSE · Edexcel · Maths

57 mins 26 questions

Exam Questions

Using a Calculator

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Easy (12 questions)	/23
Medium (8 questions)	/18
Hard (6 questions)	/16
Total Marks	**/57**

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Easy Questions

1 (a) Use your calculator to work out $\dfrac{38.5 \times 14.2}{18.4 - 5.9}$

Write down all the figures on your calculator display.
You must give your answer as a decimal.

(2 marks)

(b) Write your answer to part (a) correct to 1 significant figure.

(1 mark)

2 Use a calculator to work out

$$\frac{\sqrt{20.4}}{6.2 \times 0.48}$$

Write down all the figures on your calculator display.
Give your answer as a decimal.

(2 marks)

3 (a) Use your calculator to work out $\dfrac{\sqrt{7056}}{0.35 \times 12.8}$

Write down all the figures on your calculator display.
You must give your answer as a decimal.

(2 marks)

(b) Write your answer to part (a) correct to 1 significant figure.

(1 mark)

4 Work out $(5.6 \times 10^6) + (2.3 \times 10^5)$

(2 marks)

5 Work out the square root of 100 million.

A. 1 000

B. 10 000

C. 100 000

D. 1 000 000

(1 mark)

6 (a) Calculate $\sqrt{\dfrac{4.8^2 + 3.6^2}{4}}$

(2 marks)

(b) Calculate $\dfrac{1}{(2 \times 10^4) + (5 \times 10^3)}$

(2 marks)

7 Work out $\dfrac{\sqrt{17 + 4^2}}{7.3^2}$

Write down all the figures on your calculator display.

(2 marks)

8 Work out $4.2 \times 10^3 + 5.3 \times 10^2$

Give your answer in standard form.

(2 marks)

9 Calculate $\frac{4}{\sqrt{0.0025}}$.

(1 mark)

10 Calculate $\frac{5}{8} + \sqrt[3]{340}$

(1 mark)

11 Calculate $\frac{5.39 - 0.98}{0.743 - 0.0743}$

(1 mark)

12 Calculate $\sqrt{2.38 + 6.4^2}$, writing down your full calculator display.

(1 mark)

Medium Questions

1 Calculate the value of $\sqrt{\dfrac{\tan 60° + 1}{\tan 60° - 1}}$

Write down all the figures on your calculator display.
You must give your answer as a decimal.

(2 marks)

2 (a) Use your calculator to work out $\dfrac{\sqrt{70.25}}{4.2 - 2.37}$

Write down all the figures on your calculator display
You must give your answer as a decimal.

(2 marks)

(b) Write your answer to part (a) correct to 4 decimal places.

(1 mark)

3 Use your calculator to work out $\dfrac{1.45^2}{3.89 - \sqrt{5.75}}$

Write down all the figures on your calculator display.
You must give your answer as a decimal.

(2 marks)

4 (a) Use your calculator to work out $\sqrt{\dfrac{\sin 25° + \sin 40°}{\cos 25° - \cos 40°}}$

Write down all the figures on your calculator display.

(2 marks)

(b) Write your answer to part (a) correct to 2 decimal places.

(1 mark)

5 Work out $\dfrac{5.6 \times 10^4 + 7 \times 10^3}{2.8 \times 10^{-3}}$

Give your answer in standard form.

(2 marks)

6 Work out $\dfrac{3 \times 10^5 - 2.7 \times 10^4}{6 \times 10^{-2}}$

(2 marks)

7 An approximation for the value of π is given by

$$4\left(1 - \frac{22}{57} + \frac{22}{85} - \frac{22}{105} + \frac{22}{117} - \frac{22}{242}\right)$$

Use your calculator to show that this approximation is within 0.1 of 3.14

(2 marks)

8 Work out $\dfrac{3.2 \times 10^{3} + 5.1 \times 10^{-2}}{4.3 \times 10^{-4}}$

Give your answer in standard form, correct to 3 significant figures.

(2 marks)

Hard Questions

1 (a) Find the reciprocal of 2.5

(1 mark)

(b) Work out $\sqrt[3]{\dfrac{4.3 \times \tan 39°}{23.4 - 6.06}}$

Give your answer correct to 3 significant figures.

(2 marks)

2 i) Find the value of $\sqrt[5]{3.2 \times 10^{11}}$

[1]

ii) Find the value of $10^{\frac{3}{4}}$

Give your answer correct to 1 decimal place.

[1]

(2 marks)

3 Work out $\sqrt{\dfrac{2.5 \times \sin 43°}{8.2^2 - 50.5}}$

Give your answer correct to 3 significant figures.

(2 marks)

4 (a) Use your calculator to work out $19.42^2 - \sqrt[3]{1006} \div 4.95$

Write down your full calculator display.

(1 mark)

(b) Use approximations to check that your answer to part (a) is sensible.

You **must** show your working.

(2 marks)

5 (a) Use your calculator to work out $\dfrac{29^2 - 4.6}{\sqrt{35 - 1.9^3}}$

Write down all the figures on your calculator display.

(2 marks)

(b) Write your answer to part (a) correct to 4 significant figures.

(1 mark)

6 Use the formula $x_{n+1} = \sqrt[3]{10 - 2x_n}$ to find the values of x_1, x_2 and x_3 to 3 decimal places

Start with $x_0 = 2$

$x_1 =$ .....

$x_2 =$ .....

$x_3 =$ .....

(3 marks)