

1MA1 Foundation themed papers: Calculator skills

Write your name here	
Surname	Other names
Centre Number	Candidate Number
<input type="text"/>	<input type="text"/>
Pearson Edexcel Level 1/Level 2 GCSE (9–1)	<input type="text"/>
Mathematics Calculator skills	
Foundation Tier	Paper Reference 1MA1
You must have: Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser, calculator. Tracing paper may be used.	Total Marks
	<input type="text"/>

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided – *there may be more space than you need.*
- You must **show all your working.**
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- If your calculator does not have a π button, take the value of π to be 3.142 unless the question instructs otherwise.

Information

- The total mark for this paper is **27**. There are **11** questions.
- Questions have been arranged in an ascending order of mean difficulty, as found by all students in the June 2017–November 2019 examinations.
- The marks for **each** question are shown in brackets – *use this as a guide as to how much time to spend on each question.*

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

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1 Find $\sqrt{1.44}$

.....
(Total for Question 3 is 1 mark)

2 Find the value of $\sqrt{17.64}$

.....
(Total for Question 2 is 1 mark)

3 (a) Find the value of $\sqrt{1.44 \times 3.61}$

.....
(1)

(b) Find the value of $(3.54 - 0.96)^2 - 4.096$

.....
(2)

(Total for Question 3 is 3 marks)

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4 (a) Use your calculator to work out $\frac{43.2 + \sqrt{99.05}}{0.193}$

Write down all the digits on your calculator display.

.....
(2)

(b) Write your answer to part (a) correct to 2 significant figures.

.....
(1)

(Total for Question 4 is 3 marks)

5 Find the value of $\frac{5.27 + 3.5}{7.9 - 4.36}$

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

.....
(Total for Question 5 is 2 marks)

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6 (a) Work out $\frac{4.36 + 2.8^3}{6.8 - 5.42}$

Give your answer as a decimal.

Write down all the digits on your calculator display.

.....
(2)

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

.....
(1)

(Total for Question 6 is 3 marks)

7 Work out the value of $\frac{\sqrt{2.7} + 6.5}{4.8 - 1.06}$

Give your answer correct to 2 decimal places.

.....
(Total for Question 7 is 3 marks)

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8 Find the value of $\frac{\sqrt{13.4 - 1.5}}{(6.8 + 0.06)^2}$

Write down all the figures on your calculator display.

.....
(Total for Question 8 is 2 marks)

9 (a) Use your calculator to work out the value of

$$\sqrt{\frac{51.2 - 37.38}{9.67 + 84.9}}$$

Write down all the digits on your calculator display.

.....
(2)

(b) Write your answer to part (a) correct to 2 significant figures.

.....
(1)

(Total for Question 9 is 3 marks)

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10 Use your calculator to work out $\sqrt{\frac{\sin 25^\circ + \sin 40^\circ}{\cos 25^\circ - \cos 40^\circ}}$

(a) Write down all the figures on your calculator display.

.....
(2)

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

.....
(1)

(Total for Question 10 is 3 marks)

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

Write down all the figures on your calculator display.

.....
(2)

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

.....
(1)

(Total for Question 11 is 3 marks)

TOTAL MARKS FOR PAPER: 27