Name: SOLUTIONS

GCSE (1 - 9)

Use of a Calculator

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Solutions by
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More recent exam papers do exist but are withheld for mock exams
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Question	Where the question appeared
1	Edexcel, GCSE, Summer 2017, Paper 2F, Q12
2	Edexcel, GCSE, Autumn 2017, Paper 2F, Q23
3	Edexcel, GCSE, Summer 2018, Paper 3F, Q8
4	Edexcel, GCSE, Autumn 2018, Paper 3F, Q20
5	Edexcel, GCSE, Summer 2019, Paper 3F, Q14
6	Edexcel, GCSE, Autumn 2019, Paper 2F, Q4
7	Edexcel, GCSE, Autumn 2019, Paper 3F, Q23
8	Edexcel, GCSE, Autumn 2019, Paper 3F, Q23
9	Edexcel, GCSE, Summer 2023, Paper 2F, Q20
10	Edexcel, GCSE, November 2022, Paper 2F, Q17
11	Edexcel, GCSE, Summer 2022, Paper 3F, Q5
12	Edexcel, GCSE, Summer 2022, Paper 3F, Q15

Use of a Calculator Questions from Past Papers

1

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

Write down all the figures on your calculator display.

3·4496....
47·0596....

0·073303....

(Total for Question 12 is 2 marks)

[Edexcel, GCSE, Summer 2017, Paper 2F, Q12]

2

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

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

$\sqrt{\dfrac{1·0654....}{0·1402...}}$ = 2·7560...

(2)

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

2·76

(1)

(Total for Question 23 is 3 marks)

[Edexcel, GCSE, Autumn 2017, Paper 2F, Q23]

Use of a Calculator Questions from Past Papers

3

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

2·28

(1)

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

$6 \cdot 6564 - 4 \cdot 096 = 2 \cdot 5604$

2·5604

(2)

(Total for Question 8 is 3 marks)

[Edexcel, GCSE, Summer 2018, Paper 3F, Q8]

4

(a) Write 7357 correct to 3 significant figures.

7 360

(1)

(b) Work out $\dfrac{\sqrt{17 + 4^2}}{7.3^2}$

Write down all the figures on your calculator display.

$\dfrac{5.74456\ldots}{53.29}$

$= 0.1077981\ldots$

(2)

(Total for Question 20 is 3 marks)

[Edexcel, GCSE, Autumn 2018, Paper 3F, Q20]

5

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

$\dfrac{8.777}{3.54}$

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

2.4774011

(Total for Question 14 is 2 marks)

[Edexcel, GCSE, Summer 2019, Paper 3F, Q14]

6

Find the value of $\sqrt{17.64}$

4.2

(Total for Question 4 is 1 mark)

[Edexcel, GCSE, Autumn 2019, Paper 2F, Q4]

Use of a Calculator Questions from Past Papers

7

(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.

836·4 / 5·304

= 157·668255

(2)

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

157·7

(1)

(Total for Question 23 is 3 marks)

[Edexcel, GCSE, Autumn 2019, Paper 3F, Q23]

8

(a) Work out the value of $\frac{300}{2 \times 5}$

300 / 10 = 30

(1)

(b) Work out the value of $(6 - 2.5)(8 + 4)$

3·5 x 12

42

(1)

(c) Write down the reciprocal of 20

$20^{-1} = \frac{1}{20}$

(1)

(Total for Question 9 is 3 marks)

[Edexcel, GCSE, Autumn 2020, Paper 3F, Q9]

9

(a) Work out the value of $\dfrac{25 - \sqrt{43.87}}{6 + 2.1^2}$

Write down all the figures on your calculator display.

1.765279 23

(2)

(b) Work out the value of the reciprocal of 0.625

$(0.625)^{-1} = \left(\frac{5}{8}\right)^{-1} = \frac{8}{5} = 1.6$

(1)

(Total for Question 20 is 3 marks)

[Edexcel, GCSE, Summer 2023, Paper 2F, Q20]

10

(a) Write 87 569 correct to 3 significant figures.

87,600

(1)

(b) Work out $\dfrac{(3.2 + 3.7) \times 4.9}{5.3 - 2.8}$

Give your answer as a decimal.

13.524

(2)

(Total for Question 17 is 3 marks)

[Edexcel, GCSE, November 2022, Paper 2F, Q17]

11

Find $\sqrt{1.69}$

1·3

(Total for Question 5 is 1 mark)

[Edexcel, GCSE, Summer 2022, Paper 3F, Q5]

12

Work out $\dfrac{2.75 \times 14.6}{10 - 1.97}$

5

(Total for Question 15 is 2 marks)

[Edexcel, GCSE, Summer 2022, Paper 3F, Q15]