Name: _____

GCSE (1 - 9) Standard Form (Foundation Questions)	Solutions:

These questions are compiled from *released* Pearson Edexcel GCSE maths exam papers
They contain exam questions from up until the ***Summer 2023*** exam series
More recent exam papers do exist but are withheld for mock exams
As new exam papers are released these worksheets will gradually be updated
The ***most current*** version of these worksheets will always be available at: kennethstafford.co.uk

Question	Where the question appeared
1	Edexcel, GCSE, Autumn 2017, Paper 1F, Q24
2	Edexcel, GCSE, Autumn 2017, Paper 3F, Q25
3	Edexcel, GCSE, Autumn 2018, Paper 2F, Q27
4	Edexcel, GCSE, Autumn 2019, Paper 2F, Q27
5	Edexcel, GCSE, Autumn 2019, Paper 3F, Q28
6	Edexcel, GCSE, Autumn 2020, Paper 1F, Q28
7	Edexcel, GCSE, Summer 2017, Paper 2F, Q15
8	Edexcel, GCSE, Summer 2018, Paper 3F, Q18
9	Edexcel, GCSE, Summer 2019, Paper 2F, Q27
10	Edexcel, GCSE, Summer 2022, Paper 1F, Q26
11	Edexcel, GCSE, Summer 2023, Paper 3F, Q28
12	Edexcel, GCSE, November 2022, Paper 2F, Q29
13	Edexcel, GCSE, Summer 2022, Paper 1F, Q26

1

Work out $\dfrac{0.06 \times 0.0003}{0.01}$

Give your answer in standard form.

.....

(Total for Question 21 is 3 marks)

[Edexcel, GCSE, Autumn 2017, Paper 1F, Q24]

2

Work out $(13.8 \times 10^{7}) \times (5.4 \times 10^{-12})$

Give your answer as an ordinary number.

.....

(Total for Question 25 is 2 marks)

[Edexcel, GCSE, Autumn 2017, Paper 3F, Q25]

3

(a) Write the number 0.000 075 47 in standard form.

.....

(1)

(b) Write 3.42×10^4 as an ordinary number.

.....

(1)

(c) Work out $\dfrac{2.3 \times 10^4 \times 6.7 \times 10^3}{5 \times 10^{-8}}$

.....

(2)

(Total for Question 27 is 4 marks)

[Edexcel, GCSE, Autumn 2018, Paper 2F, Q27]

4

Work out $(3.42 \times 10^{-7}) \div (7.5 \times 10^{-6})$
Give your answer in standard form.

.....

(Total for Question 27 is 2 marks)

[Edexcel, GCSE, Autumn 2019, Paper 2F, Q27]

5

(a) Write 32 460 000 in standard form.

.....

(1)

(b) Write 4.96×10^{-3} as an ordinary number.

.....

(1)

Asma was asked to compare the following two numbers.

$$A = 6.212 \times 10^8 \quad \text{and} \quad B = 4.73 \times 10^9$$

She says,

"6.212 is bigger than 4.73 so A is bigger than B."

(c) Is Asma correct?
You must give a reason for your answer.

.....

.....

.....

(1)

(Total for Question 28 is 3 marks)

[Edexcel, GCSE, Autumn 2019, Paper 3F, Q28]

6

Write these numbers in order of size.
Start with the smallest number.

6.72×10^5 67.2×10^{-4} 672×10^4 $0.000\,672$

.....

(Total for Question 28 is 2 marks)

[Edexcel, GCSE, Autumn 2020, Paper 1F, Q28]

7

(a) Write 4.7×10^{-1} as an ordinary number.

.....

(1)

(b) Work out the value of $(2.4 \times 10^3) \times (9.5 \times 10^5)$
Give your answer in standard form.

.....

(2)

(Total for Question 15 is 3 marks)

[Edexcel, GCSE, Summer 2017, Paper 2F, Q15]

8

Work out the value of $\dfrac{2.645 \times 10^9}{1.15 \times 10^3}$

Give your answer in standard form.

.....

(Total for Question 18 is 2 marks)

[Edexcel, GCSE, Summer 2018, Paper 3F, Q18]

9

(a) Write 0.00562 in standard form.

.....

(1)

(b) Write 1.452×10^3 as an ordinary number.

.....

(1)

(Total for Question 27 is 2 marks)

[Edexcel, GCSE, Summer 2019, Paper 2F, Q27]

10

(a) Write 1.63×10^{-3} as an ordinary number.

.....

(1)

(b) Write 438 000 in standard form.

.....

(1)

(c) Work out $(4 \times 10^{3}) \times (6 \times 10^{-5})$
Give your answer in standard form.

.....

(2)

(Total for Question 4 is 4 marks)

[Edexcel, GCSE, Summer 2022, Paper 1F, Q26]

11

(a) Write $(9 \times 10^4) : (4.5 \times 10^6)$ in the form $1 : n$ where n is an integer.

.....

(2)

(b) Write the following numbers in order of size.
Start with the smallest number.

5.625×10^4 5625 $56\,250 \times 10^{-3}$ $0.005\,625 \times 10^5$

.....

(2)

(Total for Question 28 is 4 marks)

[Edexcel, GCSE, Summer 2023, Paper 3F, Q28]

12

(a) Write 6.75×10^{-4} as an ordinary number.

.....

(1)

(b) Work out $\dfrac{2.56 \times 10^{6} \times 4.12 \times 10^{-3}}{1.6 \times 10^{-2}}$

Give your answer in standard form.

.....

(2)

(Total for Question 29 is 3 marks)

[Edexcel, GCSE, November 2022, Paper 2F, Q29]

13

(a) Write 1.63×10^{-3} as an ordinary number.

.....

(1)

(b) Write 438 000 in standard form.

.....

(1)

(c) Work out $(4 \times 10^{3}) \times (6 \times 10^{-5})$
Give your answer in standard form.

.....

(2)

(Total for Question 26 is 4 marks)

[Edexcel, GCSE, Summer 2022, Paper 1F, Q26]