STANDARD FORM

Pearson Edexcel - Thursday 6 June 2019 - Paper 2 (Calculator) Foundation Tier

1.

27 (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)

Pearson Edexcel - Thursday 8 November 2018 - Paper 2 (Calculator) Foundation Tier

2.

27 (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)

Pearson Edexcel - Tuesday 12 June 2018 - Paper 3 (Calculator) Foundation Tier

3.

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

Give your answer in standard form.

....

(Total for Question 18 is 2 marks)

Pearson Edexcel - Thursday 2 November 2017 - Paper 1 (Non-Calculator) Foundation Tier

4.

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

Give your answer in standard form.

....

(Total for Question 21 is 3 marks)

Pearson Edexcel - Wednesday 8 November 2017 - Paper 3 (Calculator) Foundation Tier

5.

25 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)

OCR Thursday 7 June 2018 – Morning (Non Calculator) Foundation Tier

6.

13 (a) Calculate.

$$\frac{3}{5} + \frac{5}{8}$$

Give your answer as a mixed number in its simplest form.

(a) .... **[3]**

(b) Work out.

$$5 \times 10^4 - 1.6 \times 10^3$$

Give your answer in standard form.

(b) .... **[3]**

7.

22 (a) Beth is given the following question.

> Work out
>
> $$4.1 \times 10^5 \times 3 \times 10^2.$$
>
> Give your answer in standard form.

This is Beth's answer to the question.

$$12.3 \times 10^7$$

Explain why Beth's answer is incorrect.

....

.... [1]

(b) Show that

$$4.5 \times 10^2 + 7.3 \times 10^3 = 7.75 \times 10^3.$$

[2]

8.

10 **(a)** Write $7 \times 7 \times 7 \times 7$ as a power of 7.

(a) .... [1]

(b) Complete this working to write 4^3 as a power of 2.

$4^3 = 4 \times 4$ ....

so $\quad 4^3 = 2 \times 2 \times 2 \times$ ....

so $\quad 4^3 =$ .... [2]

(c) Write these numbers in order, starting with the largest.

8.1×10^1 $\qquad$ 1.02×10^3 $\qquad$ 9.83×10^{-2} $\qquad$ 3×10^2

(c) .... , ... , ... , ... [1]
  largest

9.

13 A company makes sweets.
The sweets are put into packets.

Here are some facts.

1.47×10^7 sweets are made every day	3.5×10^5 packets of sweets are produced every day

(a) Calculate the mean number of sweets in one packet.

(a) .... [2]

(b) Sweets are made on 288 days each year.

Calculate the number of sweets made each year.
Give your answer in standard form.

(b) .... [3]

(c) The company has 152 machines making the sweets.
Each machine operates for 15 hours each day.

(i) Calculate the number of sweets made by one machine each hour.
Give your answer as an ordinary number correct to the nearest 10.

(c)(i) .... [3]

(ii) State one assumption you have made in part (c)(i).

....

.... [1]

10.

14 (a) Write 543 000 in standard form.

(a) .... [1]

(b) Write 6.3×10^{-2} as an ordinary number.

(b) .... [1]

(c) Pierre is given this question.

> Work out.
> 61000 × 4000
> Give your answer in standard form.

Pierre's answer is 24.4×10^{7}.

Is Pierre correct?
Explain your answer.

....

.... [1]

11.

5 The table below shows the number of tonnes of rice produced in a year in five countries.

Country	Rice produced (tonnes)
China	1.43×10^8
India	9.9×10^7
Vietnam	2.71×10^7
Thailand	2.05×10^7
Brazil	7.82×10^6

(a) Which country produced the most rice?

(a) .... [1]

(b) Write 2.71×10^7 as an ordinary number.

(b) .... [1]

(c) One tonne is equal to 1000 kilograms.

Change 7.82×10^6 tonnes to kilograms.
Give your answer in standard form.

(c) .... kg [2]

(d) How many **more** tonnes of rice did India produce than Thailand?
Give your answer in standard form.

(d) .... tonnes [2]

12.

29 (a)   Write   360 000   in standard form.

[1 mark]

_____

Answer _____

29 (b)   Write 9.2×10^{-3} as an ordinary number.

[1 mark]

_____

Answer _____

13.

20 (a)   Write   0.00097   in standard form.

[1 mark]

Answer _____

20 (b)   Work out $\dfrac{3 \times 10^5}{4 \times 10^3}$

Give your answer as an ordinary number.

[2 marks]

_____

_____

_____

_____

_____

_____

Answer _____

14.

27   Work out $\dfrac{9.12 \times 10^{10}}{3.2 \times 10^4}$

Give your answer in standard form.

[2 marks]

_____

_____

_____

Answer _____

15.

32   Put these numbers in order from smallest to largest.

$$8 \times 10^{-4} \qquad 4 \times 10^{-2} \qquad 6 \times 10^{-4} \qquad 0.07$$

[2 marks]

_____

_____

_____

_____

Smallest _____

_____

_____

Largest _____

AQA Thursday 2 November 2017 – Morning (Non-Calculator) Foundation Tier

16.

28 (a) Write in standard form   12 500

[1 mark]

Answer _____

28 (b) Write as an ordinary number 3.4×10^{-2}

[1 mark]

Answer _____

AQA Thursday 25 May 2017– Morning (Non-Calculator) Foundation Tier

17.

18 Write the number   six million five thousand two hundred   in standard form.

[2 marks]

_____

_____

_____

Answer _____

AQA Thursday 8 June 2017– Morning (Calculator) Foundation Tier

18.

27   Write these numbers in **descending** order.

$$9563 \qquad 9.56 \times 10^3 \qquad 9.56 \times 3^{10}$$

[2 marks]

_____

_____

_____

Answer _____ , _____ , _____

AQA Sample Paper 1– Morning (Non-Calculator) Foundation Tier

19.

21 (a) Work out 2.4×0.002

[1 mark]

Answer _____

21 (b) Write 1.2×10^{-5} as an ordinary number.

[1 mark]

Answer _____

21 (c) Write 2 500 000 in standard form.

[1 mark]

Answer _____