Chhetri Academy

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GCSE MATHS

Number

Edexcel 1MA1 | Subtopic collection Topic 07

Standard form

Foundation tier

Past paper question booklet

15	2017-2025	Foundation
question groups	available papers	tier

Before you begin

1. Show working and use units where appropriate.
2. Use extra paper if you need more space.
3. Print at actual size (100%) for measurement questions.

Name _____ **Date** _____

Whole questions are retained for context; some parts cover other points. Legacy sources are labelled.

15 (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)

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

Give your answer in standard form.

.....

(Total for Question 21 is 3 marks)

18 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)

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)

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)

Question 06

27 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)

28 (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)

23 (a) Write 4.5×10^5 as an ordinary number.

.....

(1)

(b) Write 0.007 in standard form.

.....

(1)

(c) Work out $4.2 \times 10^3 + 5.3 \times 10^2$
Give your answer in standard form.

.....

(2)

(Total for Question 23 is 4 marks)

26 (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)

29 (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)

20 (a) Write 468 000 in standard form.

.....

(1)

(b) Write 5.037×10^{-4} as an ordinary number.

.....

(1)

(Total for Question 20 is 2 marks)

23 (a) (i) Write 5.3×10^4 as an ordinary number.

.....

(1)

(ii) Write 7.4×10^{-5} as an ordinary number.

.....

(1)

(b) Calculate the value of $9.7 \times 10^6 + 2.45 \times 10^7$
Give your answer in standard form.

.....

(2)

(Total for Question 23 is 4 marks)

Question 13

27 $1.25 \times 10^{-12} = k \times (4 \times 10^{-20})$

Work out the value of k.
Give your answer in standard form.

$k =$ .....

(Total for Question 27 is 2 marks)

18 (a) Write 3.402×10^5 as an ordinary number.

.....

(1)

(b) Write 0.8026 in standard form.

.....

(1)

(Total for Question 18 is 2 marks)

23 Work out $5.7 \times 10^2 + 9.8 \times 10^3$
Give your answer in standard form.

.....

(Total for Question 23 is 3 marks)