

Name

Class



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# Standard Form

(9 – 1) Topic booklet

These questions have been collated from previous years GCSE Mathematics papers.

**You must have:** Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser.

Total Marks

## 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.*
- Diagrams are NOT accurately drawn, unless otherwise indicated.
- You must **show all your working out.**
- If the question is a **1F** question you are not allowed to use a calculator.
- If the question is a **2F** or a **3F** question, you may use a calculator to help you answer.

## Information

- 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.

**Answer ALL questions**  
**Write your answers in the space provided.**  
**You must write down all the stages in your working.**

**15 (a)** Write  $4.7 \times 10^{-1}$  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)

June 2017 – Paper 2F

**(Total for Question 15 is 3 marks)**

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

Give your answer in standard form.

May 2018 – Paper 3F

.....  
**(Total for Question 18 is 2 marks)**

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

Give your answer in standard form.

November 2017 – Paper 1F

(Total for Question 21 is 3 marks)

23 (a) Write  $4.5 \times 10^5$  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)

November 2021 – Paper 3F

(Total for Question 23 is 4 marks)

- 25** Work out  $(13.8 \times 10^7) \times (5.4 \times 10^{-12})$   
Give your answer as an ordinary number.

November 2017 – Paper 3F

**(Total for Question 25 is 2 marks)**

- 26** (a) Write  $1.63 \times 10^{-3}$  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)

June 2022 – Paper 1F

**(Total for Question 26 is 4 marks)**

27 (a) Write 0.00562 in standard form.

.....  
(1)

(b) Write  $1.452 \times 10^3$  as an ordinary number.

.....  
(1)

June 2019 – Paper 2F

**(Total for Question 27 is 2 marks)**

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

.....  
(1)

(b) Write  $3.42 \times 10^4$  as an ordinary number.

.....  
(1)

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

.....  
(2)

November 2018 – Paper 2F

**(Total for Question 27 is 4 marks)**

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

November 2019 – Paper 2F

**(Total for Question 27 is 2 marks)**

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

$$6.72 \times 10^5$$

$$67.2 \times 10^{-4}$$

$$672 \times 10^4$$

$$0.000672$$

May 2020 – Paper 1F

**(Total for Question 28 is 2 marks)**

28 (a) Write 32460 000 in standard form.

.....  
(1)

(b) Write  $4.96 \times 10^{-3}$  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)