



# ACHIEVE ACADEMY

## GCSE Maths — Foundation Tier

Standard Form · Practice Booklet

NAME:

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CLASS:

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DATE:

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☐ Developing

☒ Secure

☐ Greater Depth

Answer every question in the working space provided. Method marks are available for correct working even if the final answer is wrong. Check the time allowed with your tutor before you start.

### Standard Form

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Total marks available: 80

## ● Standard Form

Q1

[2 marks]

Write  $2 \times 10^3$  as an ordinary number.

Q2

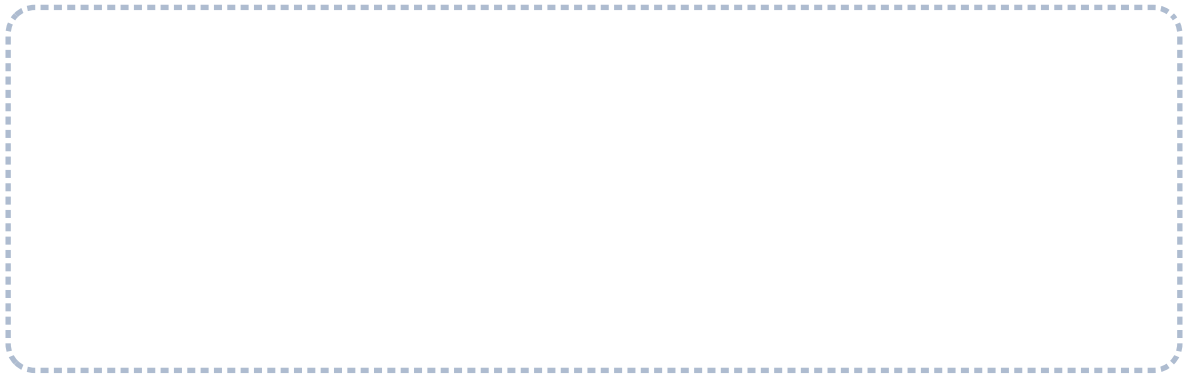
[2 marks]

Write  $9.8 \times 10^{-4}$  as an ordinary number.

Q3

[2 marks]

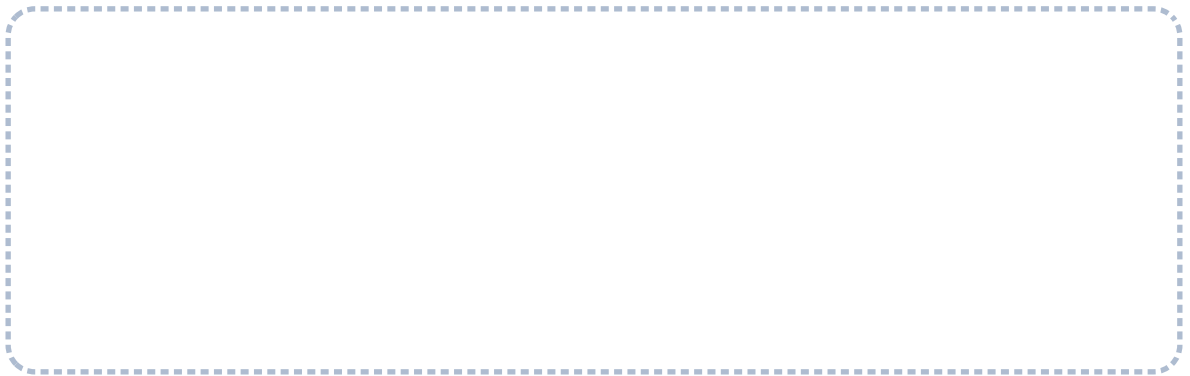
Write 55,000,000 in standard form.



Q4

[2 marks]

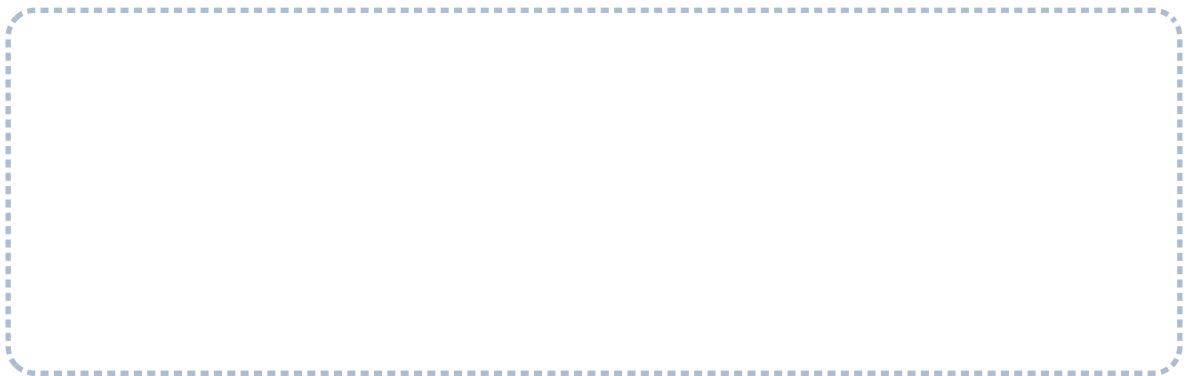
Write 590,000 in standard form.



Q5

[2 marks]

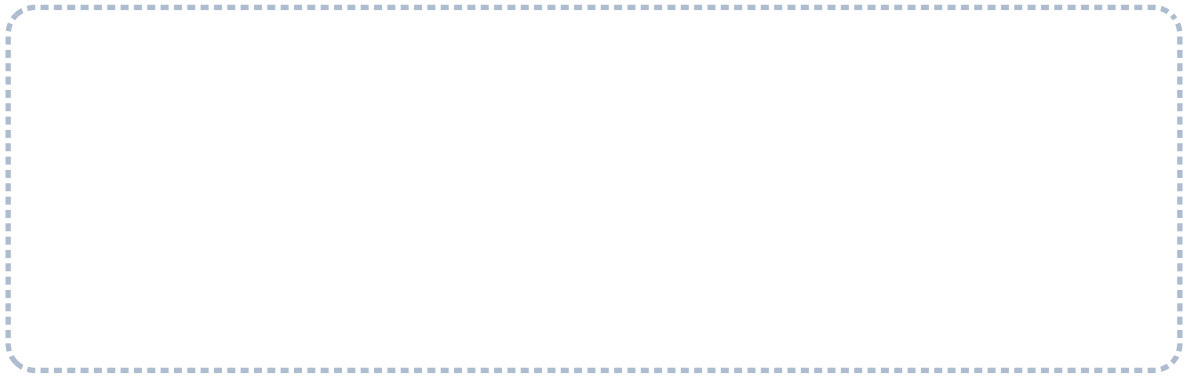
Write  $6.1 \times 10^3$  as an ordinary number.



Q6

[2 marks]

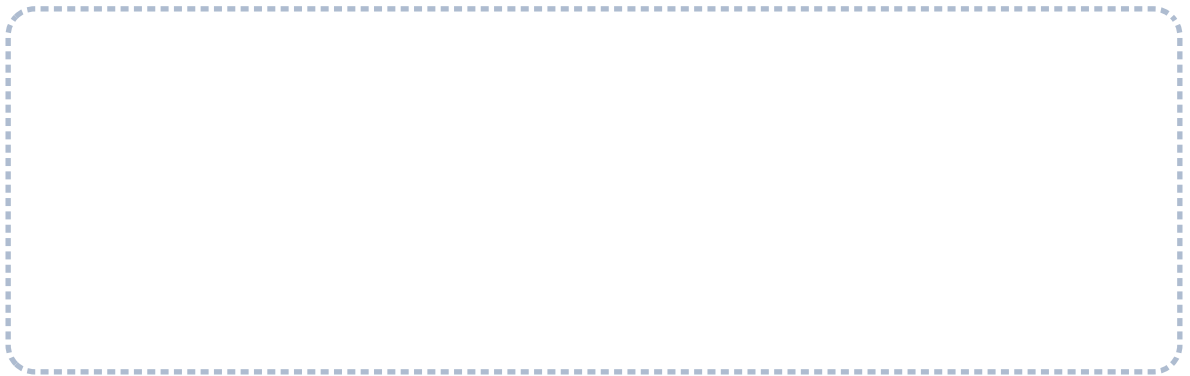
Write 0.000025 in standard form.



Q7

[2 marks]

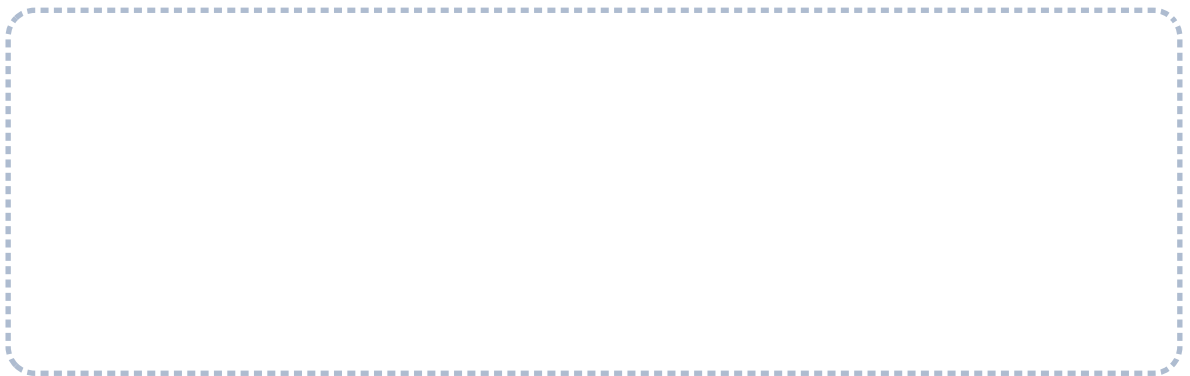
Write  $1.1 \times 10^{-2}$  as an ordinary number.



Q8

[2 marks]

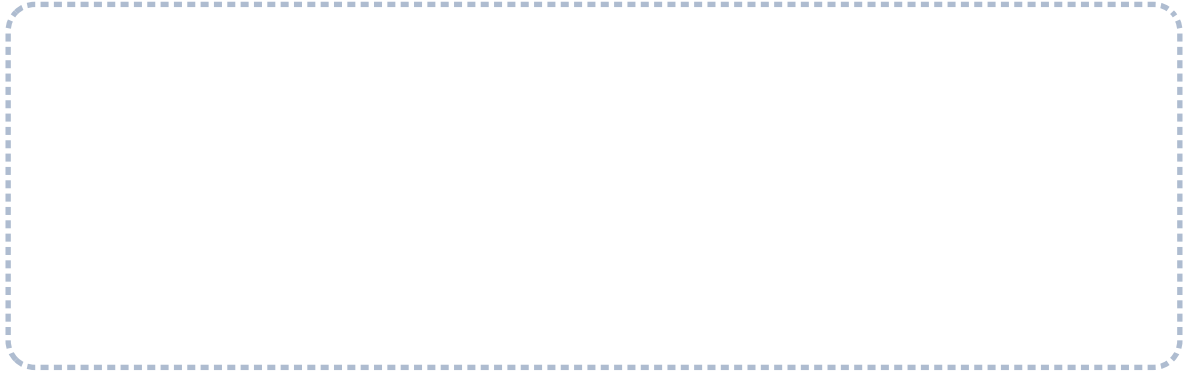
Write  $1.3 \times 10^3$  as an ordinary number.



Q9

[2 marks]

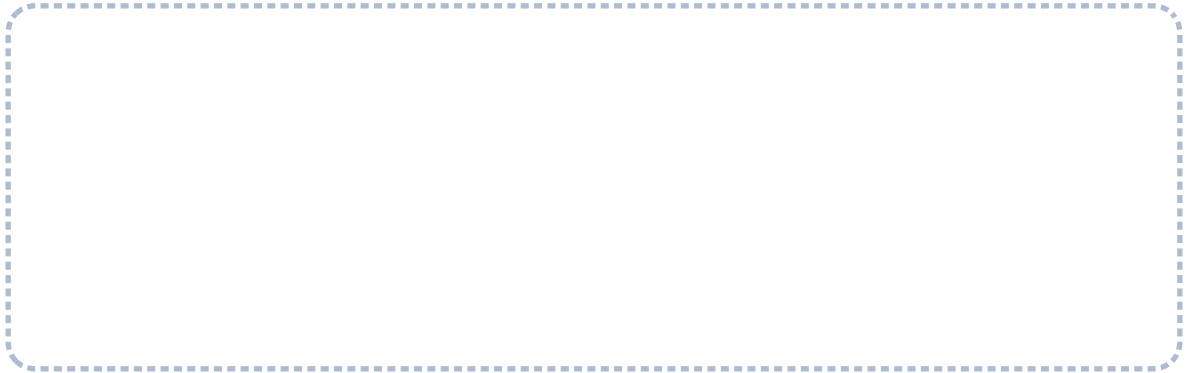
Write 0.018 in standard form.



Q10

[2 marks]

Write  $1.6 \times 10^{-2}$  as an ordinary number.



Q11

[3 marks]

Calculate  $(3.64 \times 10^9) \div (4 \times 10^3)$ . Give your answer in standard form.

Q12

[3 marks]

Calculate  $(6.3 \times 10^4) \div (3 \times 10^1)$ . Give your answer in standard form.

Q13

[3 marks]

Calculate  $(2.3 \times 10^4) \times (2.8 \times 10^5)$ . Give your answer in standard form.

Q14

[3 marks]

Calculate  $(2.5 \times 10^5) \times (4.7 \times 10^4)$ . Give your answer in standard form.

Q15

[3 marks]

Calculate  $(2 \times 10^4) \times (3.2 \times 10^3)$ . Give your answer in standard form.

Q16

[3 marks]

Calculate  $(3.9 \times 10^7) \times (3.7 \times 10^2)$ . Give your answer in standard form.

Q17

[3 marks]

Calculate  $(1.04 \times 10^5) \div (2 \times 10^1)$ . Give your answer in standard form.

Q18

[3 marks]

Calculate  $(1.12 \times 10^5) \div (4 \times 10^1)$ . Give your answer in standard form.

Q19

[3 marks]

Calculate  $(3.7 \times 10^3) \times (1.6 \times 10^3)$ . Give your answer in standard form.

Q20

[3 marks]

Calculate  $(2.8 \times 10^7) \times (2.5 \times 10^4)$ . Give your answer in standard form.

Q21

[3 marks]

Calculate  $(5.1 \times 10^7) - (3.2 \times 10^6)$ . Give your answer in standard form.

Q22

[3 marks]

Calculate  $(3.9 \times 10^8) + (2.2 \times 10^8)$ . Give your answer in standard form.

Q23

[3 marks]

Calculate  $(5.7 \times 10^8) + (2.6 \times 10^8)$ . Give your answer in standard form.

Q24

[3 marks]

Calculate  $(7.5 \times 10^5) + (3.6 \times 10^4)$ . Give your answer in standard form.

Q25

[3 marks]

Light travels  $3 \times 10^5$  km in one second. How far does light travel in  $4.5 \times 10^3$  seconds? Give your answer in standard form.

Q26

[3 marks]

Calculate  $(5.6 \times 10^6) - (2.8 \times 10^6)$ . Give your answer in standard form.

Q27

[3 marks]

Light travels  $3 \times 10^5$  km in one second. How far does light travel in  $4 \times 10^2$  seconds? Give your answer in standard form.

Q28

[3 marks]

Calculate  $(3.5 \times 10^3) - (3 \times 10^3)$ . Give your answer in standard form.

Q29

[3 marks]

Calculate  $(4.6 \times 10^8) - (2.1 \times 10^8)$ . Give your answer in standard form.

Q30

[3 marks]

One cell has a mass of  $7.6 \times 10^{-9}$  g. Work out the total mass of  $3 \times 10^4$  of these cells. Give your answer in standard form.