EDEXCEL IGCSE MATHEMATICS

UNIT 1 (MODULAR)

NUMBER – STANDARD FORM

QP & MS (2018 - 2025)

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1. June 2025 1H/Q8a, b, c

(a) Write 520 million in standard form.

.....

(1)

(b) Write 8.79×10^{-5} as an ordinary number.

.....

(1)

(c) Work out $(5 \times 10^{42}) \times (7 \times 10^{-180})$
Give your answer in standard form.

.....

(2)

(Total for Question 8 is 4 marks)

2. June 2025 1HR/Q14

Work out $6.7 \times 10^{135} + 3 \times 10^{134}$

Give your answer in standard form.

.....

(Total for Question 14 is 2 marks)

3. Nov 2024 1H/Q9a, b

(a) Write 8.4×10^{-5} as an ordinary number.

.....

(1)

(b) Work out $\left(6.5 \times 10^{-40}\right) \times \left(8 \times 10^{185}\right)$
Give your answer in standard form.

.....

(2)

(Total for Question 9 is 3 marks)

4. June 2024 1H/Q9a, b

The table gives the amount of rice produced by each of two countries in 2020

Country	Amount of rice (tonnes)
Indonesia	3.5×10^7
Argentina	8.2×10^5

(a) Write 3.5×10^7 as an ordinary number.

.....

(1)

In 2020, Japan produced 6 780 000 more tonnes of rice than Argentina.

(b) Work out the amount of rice Japan produced in 2020
Give your answer in standard form.

..... tonnes

(2)

(Total for Question 9 is 3 marks)

5. Nov 2023 1H/Q9a, b, c

(a) Write 5.87×10^{-4} as an ordinary number.

.....

(1)

(b) Write 84 000 000 in standard form.

.....

(1)

The number of neurons in a human brain is 8.5×10^{10}
The number of neurons in a monkey brain is 1.47×10^{9}

The number of neurons in a human brain is K × the number of neurons in a monkey brain.

(c) Work out the value of K
Give your answer correct to one decimal place.

K = ...

(2)

(Total for Question 9 is 4 marks)

6. June 2023 1H/Q15b

(b) Find 4% of 4.5×10^{157}
Give your answer in standard form.

.....

(3)

7. June 2023 1HR/Q8a, b

(a) Write 5.6×10^{-3} as an ordinary number.

.....

(1)

(b) Work out $\dfrac{6 \times 10^{3}}{2.1 \times 10^{-4} + 9 \times 10^{-5}}$

Give your answer in standard form.

.....

(2)

(Total for Question 8 is 3 marks)

8. Jan 2023 1H/Q9

(a) Write 6.25×10^{-4} as an ordinary number.

.....

(1)

(b) Work out $(2.4 \times 10^{12}) \div (9.6 \times 10^{4})$
Give your answer in standard form.

.....

(2)

(Total for Question 9 is 3 marks)

9. Jan 2023 1HR/Q7a, b, c

(a) Write 9.32×10^{-5} as an ordinary number.

.....

(1)

(b) Work out $3 \times 10^5 - 6 \times 10^4$

Give your answer in standard form.

.....

(2)

(c) Work out $(3 \times 10^{55}) \times (6 \times 10^{65})$

Give your answer in standard form.

.....

(2)

(Total for Question 7 is 5 marks)

10. June 2022 1H/Q8a, b

(a) Write 0.000089 in standard form.

.....

(1)

(b) Write 8.34×10^4 as an ordinary number.

.....

(1)

(Total for Question 8 is 2 marks)

11. Jan 2022 1HR/Q8a, b, c

(a) Write 5×10^4 as an ordinary number.

.....

(1)

(b) Write 0.000 06 in standard form.

.....

(1)

(c) Work out $(4 \times 10^{512}) \div (1.6 \times 10^{700})$
Give your answer in standard form.

.....

(2)

(Total for Question 8 is 4 marks)

12. May 2021 1H/Q8a, b

The table shows the populations of five countries.

Country	Population
China	1.4×10^9
Germany	8.2×10^7
Sweden	9.9×10^6
Fiji	9.1×10^5
Malta	4.3×10^5

(a) Work out the difference between the population of China and the population of Germany.
Give your answer in standard form.

.....

(2)

Given that

$$\text{population of Fiji} = \frac{1}{k} \times \text{population of Sweden}$$

(b) work out the value of k.
Give your answer correct to the nearest whole number.

$k =$ .....

(2)

(Total for Question 8 is 4 marks)

13. Jan 2021 1H/Q6a, b

(a) Write 2 840 000 000 in standard form.

.....

(1)

(b) Write 2.5×10^{-4} as an ordinary number.

.....

(1)

(Total for Question 6 is 2 marks)

14.Nov 2020 1H/Q5

(a) Write 5.7×10^{-3} as an ordinary number.

.....

(1)

(b) Write 800 000 in standard form.

.....

(1)

(c) Work out $\dfrac{3 \times 10^5 - 2.7 \times 10^4}{6 \times 10^{-2}}$

.....

(2)

(Total for Question 5 is 4 marks)

15. Jan 2020 1H/Q6a, b

(a) Write 7.8×10^{-4} as an ordinary number.

.....

(1)

(b) Work out $\dfrac{5.6 \times 10^4 + 7 \times 10^3}{2.8 \times 10^{-3}}$

Give your answer in standard form.

.....

(2)

(Total for Question 6 is 3 marks)

16. June 2019 1H/Q7a, b, c

(a) Write 5.7×10^6 as an ordinary number.

.....

(1)

(b) Write 0.004 in standard form.

.....

(1)

(c) Work out $\dfrac{2 \times 10^4 + 3 \times 10^5}{6.4 \times 10^{-2}}$

.....

(2)

(Total for Question 7 is 4 marks)

17. Jan 2019 1H/Q7a, b, c

The table shows the volumes, in km^3, of four oceans.

Ocean	Volume (km^3)
Arctic Ocean	1.88×10^7
Atlantic Ocean	3.10×10^8
Indian Ocean	2.64×10^8
Southern Ocean	7.18×10^7

(a) Write 7.18×10^7 as an ordinary number.

(1)

(b) Calculate the total volume of these four oceans.

km^3

(2)

The volume of the South China Sea is 9 880 000 km^3

(c) Write 9 880 000 in standard form.

(1)

(Total for Question 7 is 4 marks)

18.Jan 2019 1HR/Q9a

$N = 480 \times 10^9$

(a) Write N as a number in standard form.

.....

(1)

19. June 2018 1H/Q5a, b,

(a) Write 8×10^4 as an ordinary number.

.....

(1)

(b) Work out $(3.5 \times 10^5) \div (7 \times 10^8)$
Give your answer in standard form.

.....

(2)

(Total for Question 5 is 3 marks)

20.June 2018 1HR/Q8a, b

(a) Write 1 390 000 in standard form.

.....

(1)

(b) Write 0.005 in standard form.

.....

(1)

(Total for Question 8 is 2 marks)

21. Specimen 1H/Q8a, b, c

The table shows the population, correct to two significant figures, of each of six countries in April 2016.

Country	Population (April 2016)
Hungary	9.8×10^6
Mexico	1.3×10^8
Thailand	6.8×10^7
Nigeria	1.9×10^8
Singapore	5.7×10^6
Egypt	9.3×10^7

(a) Write 9.3×10^7 as an ordinary number.

.....

(1)

(b) Which of these countries had the least population?

.....

(1)

The population of China was 1.382×10^9 in April 2016.
The population of India was 1.327×10^9 in April 2016.

(c) Work out the difference between the population of China and the population of India in April 2016.
Give your answer in standard form.

.....

(2)

(Total for Question 8 is 4 marks)

22. Sample 2018 1H/Q9a, b, c, d

The table shows the diameters, in kilometres, of five planets

Planet	Diameter (km)
Venus	1.2×10^4
Jupiter	1.4×10^5
Neptune	5.0×10^4
Mars	6.8×10^3
Saturn	1.2×10^5

(a) Write 1.4×10^5 as an ordinary number.

.....

(1)

(b) Which of these planets has the smallest diameter?

.....

(1)

(c) Calculate the difference, in kilometres, between the diameter of Saturn and the diameter of Neptune.
Give your answer in standard form.

.....km

(2)

The diameter of the Moon is 3.5×10^3km.
The diameter of the Sun is 1.4×10^6km.

(d) Calculate the ratio of the diameter of the Moon to the diameter of the Sun.
Give your ratio in the form $1 : n$

.....

(2)

(Total for Question 9 is 6 marks)

MARKING SCHEME

1. June 2025 1H/Q8a, b, c

8	(a)		5.2×10^8	1	B1
	(b)		0.000 087 9	1	B1
	(c)	35×10^{-138} or $3.5\times10\times10^{-138}$ or 3.5×10^n where $n \neq -137$		2	M1
		Correct answer scores full marks (unless from obvious incorrect working)	3.5×10^{-137}		A1
					Total 4 marks

2. June 2025 1HR/Q14

14	eg 0.3×10^{135} **or** 67×10^{134} **or** $(6.7 + 0.3) \times 10^{135}$ **or** 70×10^{134} **or** 0.7×10^{136} **or** 7×10^n $n \neq 135$		2	M1
	Correct answer scores full marks (unless from obvious incorrect working)	7×10^{135}		A1
				Total 2 marks

3. Nov 2024 1H/Q9a, b

9	(a)		0.000 084	1	B1 cao
	(b)	52×10^{145} or 5.2×10^n or $p \times 10^{146}$ where $1 \leq p < 10$		2	M1
		Correct answer scores full marks (unless from obvious incorrect working)	5.2×10^{146}		A1
					Total 3 marks

4. June 2024 1H/Q9a, b

9	(a)		35 000 000	1	B1
	(b)	$8.2 \times 10^5 + 6\,780\,000$ oe or $820\,000 + 6\,780\,000$ oe or $7\,600\,000$ or 76×10^5 oe or 7.6×10^n where $n \neq 6$		2	M1 Allow correct mixture of ordinary numbers and standard form numbers
		Working not required, so correct answer scores full marks (unless from obvious incorrect working)	7.6×10^6		A1
					Total 3 marks

5. Nov 2023 1H/Q9a, b, c

9	(a)		0.000 587	1	B1 allow 0.000 587(000…) or .000 587
	(b)		8.4×10^7	1	B1 allow $8.4(000\ldots) \times 10^7$
	(c)	$8.5\times10^{10} \div 1.47\times10^9 \left(= \frac{8500}{147}\right)$ or $85\,000\,000\,000 \div 1\,470\,000\,000 \left(= \frac{8500}{147}\right)$		2	M1
		Working not required, so correct answer scores full marks (unless from obvious incorrect working)	57.8		A1 oe eg 5.78×10 awrt 57.8 allow 58 or 5.8×10 with correct working seen
					Total 4 marks

6. June 2023 1H/Q15b

(b)	$0.04 \times 4.5 \times 10^{157}$ oe		3	M1
	$4 \times 10^{-2} \times 4.5 \times 10^{157} (= 18 \times 10^{155})$ **or** 0.18×10^{157} oe			M1
	Correct answer scores full marks (unless from obvious incorrect working)	1.8×10^{156}		A1 SCB1 for $18\times10^{156} = 1.8\times10^{157}$ **or** $18\times10^{157} = 1.8\times10^{158}$
				Total 6 marks

7. June 2023 1HR/Q8a, b

8	(a)		0.0056	1	B1
	(b)	20 000 000 oe eg 20×10^6 or 0.2×10^8 **or** 2×10^n $n \neq 7$ **or** $\frac{6\times10^{(3+5)}}{21+9}$ **or** $\frac{6\times10^8}{30}$ **or** $\frac{6\times10^3}{3\times10^{-4}}$ **or** $\frac{6000}{0.0003}$ **or** $\frac{6000}{3\times10^{-4}}$		2	M1
		Correct answer scores full marks (unless from obvious incorrect working)	2×10^7		A1
					Total 3 marks

8. Jan 2023 1H/Q9

9	(a)		0.000 625	1	B1
	(b)	25 000 000 oe e.g. 25×10^6 or 0.25×10^8 **or** 2.5×10^n $n \neq 7$		2	M1
		Correct answer scores full marks (unless from obvious incorrect working)	2.5×10^7		A1
					Total 3 marks

9. Jan 2023 1HR/Q7a, b, c

7	(a)		0.000 0932	1	B1
	(b)		2.4×10^5	2	B2 If not B2, then B1 for 240 000 or 24×10^4 oe or 2.4×10^a $a \neq 5$
	(c)		1.8×10^{121}	2	B2 If not B2, then B1 for 18×10^{120} or 1.8×10^b $b \neq 121$
					Total 5 marks

10. June 2022 1H/Q8a, b

8	(a)		8.9×10^{-5}	1	B1
	(b)		83 400	1	B1
					Total 2 marks

11. Jan 2022 1HR/Q8a, b, c

8	(a)		50 000	1	B1
	(b)		6×10^{-5}	1	B1
	(c)	$2.5\times10^{512-700}$ **or** 2.5×10^n **or** 0.25×10^{-187} **or** $p\times10^{-188}$ where $1 \leq p < 10$		2	M1
			2.5×10^{-188}		A1
					Total 4 marks

12. May 2021 1H/Q8a, b

8	(a)	$1.4 \times 10^9 - 8.2 \times 10^7$ **or** $1.4 \times 10^9 - 0.082 \times 10^9$ **or** $140 \times 10^7 - 8.2 \times 10^7$ $(= 131.8 \times 10^7)$		2	M1	**or** for 1 318 000 000 oe but not in standard form eg 1318×10^6 **or** 1.318×10^n where $n \neq 9$
		Working not required, so correct answer scores full marks (unless from obvious incorrect working)	1.318×10^9		A1	Allow 1.32×10^9 or 1.3×10^9
	(b)	$\frac{9.9 \times 10^6}{9.1 \times 10^5}$ oe		2	M1	
		Working not required, so correct answer scores full marks (unless from obvious incorrect working)	11		A1	allow 10.8 – 11 (inclusive) SC: if M1 not scored, award B1 for an answer of $\frac{1}{11}$ allow 10.8 – 11 for the denominator
						Total 4 marks

13. Jan 2021 1H/Q6a, b

6	(a)		2.84×10^9	1	B1	
	(b)		0.000 25	1	B1	
						Total 2 marks

14. Nov 2020 1H/Q5

5	(a)		0.0057	1	B1	
	(b)		8×10^5	1	B1	
	(c)	$\frac{273000}{6 \times 10^{-2}}$		2	M1	for 273 000 **or** digits 455
			4 550 000		A1	for 4 550 000 or 4.55×10^6 oe
						Total 4 marks

15. Jan 2020 1H/Q6a, b

6	(a)		0.000 78	1	B1	
	(b)	22 500 000 oe e.g. 22.5×10^6 **or** 2.25×10^n $n \neq 7$		2	M1	
			2.25×10^7		A1	
						Total 3 marks

16. June 2019 1H/Q7a, b, c

7	(a)		5 700 000	1	B1	
	(b)		4×10^{-3}	1	B1	
	(c)		5 000 000 **or** 5×10^6 oe	2	B2	If not B2 then award B1 for 320000 or 3.2×10^5 oe or 5×10^n oe where $n \neq 6$
						Total 4 marks

17. Jan 2019 1H/Q7a, b, c

7	(a)		71 800 000	1	B1	
	(b)	Eg $1.88\times10^7 + 3.10\times10^8 + 2.64\times10^8 + 7.18\times10^7$ **or** 18 800 000 + 310 000 000 + 264 000 000 + 71 800 000 with at least 3 numbers correct			M1	for a complete method **or** for digits 6646
			6.646×10^8 oe	2	A1	for 6.646×10^8 oe eg 664 600 000
	(c)		9.88×10^6	1	B1	

18. Jan 2019 1HR/Q9a

9	(a)		4.8×10^{11}	1	B1

19. June 2018 1H/Q5a, b,

Question		Working	Answer	Mark	Notes
5	a		80 000	1	B1
	b	$0.5 \times 10^{5-8}$ **or** 0.0005 **or** 5×10^n **or** 5.0×10^n	5×10^{-4}	2	M1 A1 for 5×10^{-4} or 5.0×10^{-4} SC : B1 for $\frac{1}{2000}$ **or** $\frac{1}{2\times10^3}$

20. June 2018 1HR/Q8a, b

8	(a)		1.39×10^6	1	B1
	(b)		5×10^{-3}	1	B1
					Total 2 marks

21. Specimen 1H/Q8a, b, c

8	a		93 000 000	1	B1
	b		Singapore	1	B1
	c	$1.382 \times 10^9 - 1.327 \times 10^9$ oe **or** 55 000 000			M1 or for 5.5×10^n $n \neq 7$
			5.5×10^7	2	A1
					Total 4 marks

22. Sample 2018 1H/Q9a, b, c, d

Question		Working	Answer	Mark	AO	Notes
9	a		140 000	1	AO1	B1
	b		Mars	1	AO1	B1
	c	$1.2 \times 10^5 - 5 \times 10^4$ **or** 120000 – 50000 **or** 70000 oe			AO1	M1
			7×10^4	2		A1
	d	$3.5 \times 10^3 : 1.4 \times 10^6$			AO1	M1
			1 : 400	2		A1