

Q1. (2019)

	9.7×10^{-4}	B1	
	Additional Guidance		
5(a)	Condone $9.7 \cdot 10^{-4}$ or $9.7 \cdot 10^{-4}$		B1
	Ignore zeroes before the '9' eg 00009.7×10^{-4}		B1
	9.7×10^{-4}		B0

Q2. (2017)

	$6.005\ 2(00) \times 10^6$	B2	B1 for their 6 005 200 written normally and correctly converted to standard form or no number written normally and answer $6(\dots) \times 10^6$
	Additional Guidance		
13	(6 500 200 and) $6.500\ 2(00) \times 10^6$		B1
	65 200 and 6.52×10^4		B1
	$10^6 \times 6.005\ 2(00)$		B2
	Correct value of 6 005 200 with no conversion to standard form		B0
	6×10^6 with no number written normally		B1

Q3. (2021)

Question	Answer	Mark	Comments
10(b)	180 or 0.3 or ($1.8 \div 3 =$) 0.6 or ($10^2 \div 10^{-1} =$) 10^3 or calculation which would have the outcome 600 or correct value not given as an ordinary number	M1	eg $1800 \div 3$ eg 6×10^2
	600	A1	
	Additional Guidance		
	$1800 \div 0.3 = 600$ scores M1 only, as 600 comes from incorrect working		M1A0
	$1800 \div 30 = 600$ scores zero, as 600 comes from incorrect working		M0A0

Q4. (2022)

Q	Answer	Mark	Comments
	4×10^5	B2	B1 400 000 or correct answer not in standard form eg 40×10^4 or 8×10^7 or 2×10^2 or $8 \times 10^5 \div 2$ or $4 \times 10^7 \div 100$ or any value seen and then correctly converted to standard form eg 4 000 000 and 4×10^6 40 000 and 4×10^4
	Additional Guidance		
	Ignore incorrect position of commas or spacing in long numbers		
	Condone 400 000 and 4×10^5 on the answer line, in either order		B2
	Condone 40 000 and 4×10^4 on the answer line, in either order		B1
5	400 000 only on the answer line		B1
	Do not award both marks for the correct answer from incorrect working but B1 can be awarded for one or both numbers incorrectly converted to standard form and the result of their division given correctly in standard form eg $(8 \times 10^5) \div (2 \times 10^3) = 4 \times 10^5$ eg $(0.8 \times 10^7) \div (2 \times 10^3) = 4 \times 10^5$		B1 B0
	Condone a decimal point and any number of zeros after 4 eg 4.00000×10^5		B2
	8×10^7 is implied by $(8 \div 2) \times (10^7 \div 10^0)$ or condone $(8 \div 2) \times (10^7 \times 10^0)$		B1
	2×10^2 is implied by $(8 \div 2) \times (10^5 \div 10^2)$ or condone $(8 \div 2) \times (10^5 \times 10^2)$		B1

Q5. (2023)

Q	Answer	Mark	Comments
12(a)	$1 < a < 10$	B1	allow 1.0 etc
	Additional Guidance		
	Accept 9.9 for 10		

Q6. (2023)

Q	Answer	Mark	Comments
12(b)	0.0072	B2	B1 7.2×10^3 or 7.2×10^{-3} ignore extra 0s which don't affect the value
	Additional Guidance		
	0.0072 in working with 7.2×10^{-3} on the answer line		B1