



Standard Form

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1	5	$3.2(0) \times 10^4$	2	B1 32000 or 32×10^3 etc
2	6	6.4×10^7	2	M1 $64 \times 100^2 \times 10^2$ or 64 000 000 oe
3	9	$5(.00) \times 10^5$	2	SC1 for 5×10^k or 500 000 on answer line
4	6	$1.15(2) \times 10^{-2}$	2	M1 figs 115(2)
5	6	(a) 6.58×10^{-3}	1	$\times$ and 10 essential
6		(b) 0.0066 cao	1	Allow 6.6×10^{-3}
7	5	(a) 86400	1	
8		(b) 8.64×10^4	1ft	
9	7	1.85×10^4	3	B2 18500 oe seen or M1 $4x = 74000$ or $x = 2 \times 10^4 - 1.5 \times 10^3$
10	6 (a)	1.646×10^7	1	
11	(b)	3.32×10^{-2}	2	B1 for 0.0332 seen or 3.3×10^{-2} as answer or B1 for 3.32×10^k
12	2	5.92×10^8	2	M1 figs 592 on answer line or M1 296×10^6 oe in working
13	5	(a) 1.28×10^5	1	
14		(b) 128 500	1	
15	4	4.55×10^8	2	B1 for figs 455 seen
16	9 (a)	1.1×10^5	2	B1 for 110 000 oe e.g. 11×10^4
17	(b)	5×10^3	2	B1 for 5000 oe e.g. 0.5×10^4
18	12	(a) 7.5×10^{-2}	2	M1 for 0.075 or $\frac{3}{40}$ or $\frac{6}{80}$ or 0.75×10^{-1} oe
19		(b) 9.3×10^7	2	M1 for 93 000 000 or 93×10^6 or 0.93×10^8 oe
20	12 (a)	2×10^{10}	2	B1 for 20×10^9 or 20 000 000 000
21	(b)	1.25×10^{-1}	2	B1 for 0.125 oe
22	5	(a) 0.059161...	1	
23		(b) $5.9161... \times 10^{-2}$	1FT	ft <i>their</i> part (a)
24	9 (a)	280	1	
25	(b)	5×10^6	2	B1 for 5 000 000 oe or B1 for answer $k \times 10^6$ or 5×10^k

17	3	2.4×10^8	2	B1 for 240 000 000 oe or B1 for $k \times 10^8$ or 2.4×10^k
18	3	2.7×10^5	1	
19	1	5.34×10^7	1	
20	3	[0].00017	1	
21	4 (a)	2.47×10^6	1	
	(b)	7.9×10^{-3}	1	
22	3	[0].00127	1	
23	1	5.74×10^{-5}	1	
24	5 (a)	$\frac{1}{125}$	1	
	(b)	4.56×10^{-3}	1	
25	8(a)	1.36×10^6 oe	1	
26	14	2.03×10^{201}	2	B1 for figs 203 or $[0].03 \times 10^{201}$ or 200×10^{199}

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