

SMART EXAM RESOURCES

TOPIC : NUMBERS

STANDARD FORM

SET-5-QP-MS

1 (a) Write 0.000048 in standard form.

Answer(a) [1]

(b) Work out $(2 \times 10^8) \times (6 \times 10^7)$, giving your answer in standard form.

Answer(b) [2]

MARK SCHEME:

(a)	4.8×10^{-5}	1	
(b)	1.2×10^{16}	2	B1 for correct non standard form answer

2

(a) Work out $16 - 8 \div 2 + 2 \times 4$.

Answer(a) [1]

(b) Work out $(8 \times 10^{-4}) \times (2 \times 10^{-3})$, giving your answer in standard form.

Answer(b) [2]

MARK SCHEME:

(a)	20	1	
(b)	1.6×10^{-6}	2	B1 for correct answer not in standard form

3

Work out the following, giving each answer in standard form.

(a) $(6.4 \times 10^{-2}) - (1.6 \times 10^{-3})$

..... [2]

(b) $(6.4 \times 10^{-2}) \div (1.6 \times 10^{-3})$

..... [2]

MARK SCHEME:

(a)	6.24×10^{-2}	2	M1 for $0.064 - 0.0016$ or 64×10^{-3} or 0.16×10^{-2} if 0 scored SC1 for figs 624 seen
(b)	4×10^{11}	2	B1 for 4×10^k

4

Work out, giving your answer in standard form.

$$(6.3 \times 10^4) + (5.6 \times 10^5)$$

..... [2]

MARK SCHEME:

6.23×10^5	2	B1 for figs 623 or 0.63×10^5 soi or 56×10^4 soi
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5 Work out $(3.2 \times 10^{20}) + (2.3 \times 10^{21})$, giving your answer in standard form.

..... [2]

MARK SCHEME:

2.62×10^{21}	2	M1 for 0.32×10^{21} or 23×10^{20} or figs 262
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