

SMART EXAM RESOURCES

TOPIC : NUMBERS

STANDARD FORM

SET-3-QP-MS

- 1** Work out $(5.6 \times 10^{-7}) - (7.8 \times 10^{-8})$.
Give your answer in standard form.

..... [2]

MARK SCHEME:

4.82×10^{-7}	2	B1 for figs 482 or 56.7×10^{-8} or 0.78×10^{-7}
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2 Work out $(5.2 \times 10^{18}) - (2.4 \times 10^{17})$.
Give your answer in standard form.

..... [2]

MARK SCHEME:

4.96×10^{18}	2	B1 for 52×10^{17} or 0.24×10^{18} or figs 496
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3 Work out $1.1 \times 10^{30} + 1.1 \times 10^{29}$, giving your answer in standard form.

..... [2]

MARK SCHEME:

1.21×10^{30}	2	B1 for figs 121 seen or for 0.11×10^{30} seen, or for 11×10^{29} seen
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4 Work out the following.
Give each answer in standard form.

(a) $(1 \times 10^1) + (2 \times 10^{-2})$

..... [2]

(b) $(1 \times 10^1) \div (2 \times 10^{-2})$

..... [2]

MARK SCHEME:

(a)	1.002×10^{11}	2	B1 for 10.02
(b)	5×10^2	2	M1 for correct answer not in standard form

5

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

(a) $(4.3 \times 10^4) \times (3 \times 10^{-4})$

..... [2]

(b) $(6 \times 10^{-2}) + (3 \times 10^{-3})$

..... [2]

MARK SCHEME:

(a)	$1.29 \times 10^{[1]}$	2	B1 for equivalent answer not in standard form or figs 129
(b)	6.3×10^{-2}	2	B1 for equivalent answer not in standard form or figs 63