

SMART EXAM RESOURCES
SUBJECT: CAMBRIDGE INTERNATIONAL MATH
TOPIC: NUMBERS
SUB-TOPIC: FOUR OPERATIONS [BODMAS]
SET-2-QP-MS

1 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)	$1.002 \times 10^{[1]}$	2	B1 for 10.02
(b)	5×10^2	2	M1 for correct answer not in standard form

2

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

- 3 Insert **two** pairs of brackets to make this statement correct.

$$3 \times 7 - 3 + 4 \times 2 = 32$$

[1]

MARK SCHEME:

$(3 \times (7 - 3) + 4) \times 2 = 32$	1	
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4

$$c = 4 \times 10^7$$

$$d = 5.8 \times 10^6$$

Work out, giving your answers in standard form,

(a) c^2 ,

..... [2]

(b) $c - d$.

..... [2]

MARK SCHEME:

(a)	1.6×10^{15}	2	B1 for equivalent
(b)	3.42×10^7	2	B1 for figs 342

5 Work out $(1 - 0.8)^2$.

..... [1]

MARK SCHEME:

0.04	1	
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6

Work out $(2 \times 10^8) \times (6 \times 10^7)$

giving your answer in standard form.

Answer(b) [2]

MARK SCHEME:

1.2×10^{16}	2	B1 for correct non standard form answer
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7 (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

8 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)	$4 \times 10^{[1]}$	2	B1 for 4×10^k