

**SMART EXAM RESOURCES**  
**SUBJECT: CAMBRIDGE INTERNATIONAL MATH**  
**TOPIC: NUMBERS**  
**SUB-TOPIC: FOUR OPERATIONS [ BODMAS ]**  
**SET-1-QP-MS**

- 1** Work out  $(1.6 \times 10^3) \div (4 \times 10^5)$ .  
Give your answer in standard form.

*Answer* ..... [2]

## MARK SCHEME:

	$4 \times 10^{-3}$	<b>2</b>	<b>B1</b> $0.4 \times 10^{-2}$ o.e.
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**2** Work out the following, giving your answers in standard form.

**(a)**  $(4.6 \times 10^{-5}) + (3 \times 10^{-6})$

*Answer(a)* ..... [2]

**(b)**  $(4.6 \times 10^{-5}) \times (3 \times 10^{-6})$

*Answer(b)* ..... [2]

## MARK SCHEME:

(a)	$4.9 \times 10^{-5}$	2	<b>M1</b> for $0.000046 + 0.000003$ or $46 \times 10^{-6}$ or $0.3 \times 10^{-5}$
(b)	$1.38 \times 10^{-10}$	2	<b>B1</b> for $13.8 \times 10^{-11}$

**3** Work out, giving your answer in standard form.

**(a)**  $(7.5 \times 10^{-4}) + (4 \times 10^{-6})$

..... [2]

**(b)**  $(7.5 \times 10^{-4}) \times (4 \times 10^{-6})$

..... [2]

## MARK SCHEME:

(a)	$7.54 \times 10^{-4}$	2	<b>M1</b> for $0.00075 + 0.000004$ or $750 \times 10^{-6}$ or $0.04 \times 10^{-4}$ or figs 754
(b)	$3 \times 10^{-9}$	2	<b>B1</b> for $30 \times 10^{-10}$ or answer 0.000000003

4

Work out  $\frac{4 \times 10^7}{8 \times 10^{22}}$ .

Give your answer in standard form.

..... [2]

## MARK SCHEME:

$5 \times 10^{-16}$	2	<b>B1</b> for correct value, not in standard form, seen
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**5** (a) Work out  $5 - 7 \times 2 + 8$ .

..... [1]

**MARK SCHEME:**

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

..... [2]

## MARK SCHEME:

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

..... [2]

## MARK SCHEME:

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

..... [2]

## MARK SCHEME:

$1.21 \times 10^{30}$	<b>2</b>	<b>B1</b> for figs 121 seen or for $0.11 \times 10^{30}$ seen, or for $11 \times 10^{29}$ seen
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