Marked example 1

Paper 1 style · No calculator

1 5 marks SL 1.1 ●○○ Routine

Let $A = 3.6 \times 10^5$ and $B = 4.8 \times 10^{-2}$.

(a) Write $0.000\,52$ in standard form. **[1]**

(b) Find AB, giving your answer in the form $a \times 10^k$, where $1 \leq a < 10$ and $k \in \mathbb{Z}$. **[2]**

(c) Find $\frac{A}{B}$, giving your answer in the form $a \times 10^k$, where $1 \leq a < 10$ and $k \in \mathbb{Z}$. **[2]**

MARKSCHEME (a)

5.2×10^{-4} **A1**

Total 1 mark

MARKSCHEME (b)

$3.6 \times 4.8 \times 10^{5-2} = 17.28 \times 10^3$ **(M1)**

1.728×10^4 **A1**

Total 2 marks

Note Accept 1.73×10^4.

MARKSCHEME (c)

$\frac{3.6}{4.8} \times 10^{5+2} = 0.75 \times 10^7$ **(M1)**

7.5×10^6 **A1**

Total 2 marks

Written and verified by a practising IB mathematics teacher, produced with AI assistance; solved twice and recomputed by software.
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