

STANDARD FORM

9. (a) Write **each** of the following numbers in standard form.

(i) 8 370 000 000

(ii) 0.00059

[2]

- (b) Find, in standard form, the value of

$$(4.7 \times 10^{-5}) \div (8.3 \times 10^{-8}).$$

[2]

13. (a) Write **each** of the following numbers in standard form.

(i) 23 million

(ii) 0.00098

[2]

- (b) Find, in standard form, the value of $(5.4 \times 10^{-3}) \times (3 \times 10^5)$.

[2]

7. (a) Write the number twenty million in standard form.

[1]

- (b) Calculate, giving your answers in standard form correct to 2 significant figures.

(i) $(4.6 \times 10^{-7}) \times (7.2 \times 10^{14})$

[2]

(ii) $\frac{4.56 \times 10^3}{9.24 \times 10^{14}}$

[2]

16. (a) Write **each** of the following numbers in standard form.

(i) 3500

(ii) 0.3

[2]

(b) Arrange the following in ascending order.

3×10^4

3×10^{-4}

$10^2 \times 10^5$

10^0

Smallest

Largest
[2]

9. (a) Write **each** of the following numbers in standard form.

(i) 0.0047

(ii) 32000

[2]

(b) Find, in standard form, the value of

$(2.1 \times 10^{-5}) \times (3 \times 10^8).$

[2]

(iv) $3.4 \times 10^3 + 1.2 \times 10^2$

[2]

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9. (a) Write each of the following numbers in standard form.

(i) 5800

(ii) 0.004

[2]

(b) Find, in standard form, the value of $\frac{5.6 \times 10^6}{2 \times 10^{-3}}$.

[2]

(c) Find the value of $(8 \times 10^3) - (2 \times 10^3)$.

[1]

NUMERACY STYLE QUESTION

(b) Water flows into the pond at a rate of 50 litres per minute.
Complete the following statement by inserting a value written in standard form, correct to 3 significant figures. [4]

'Water flows into the pond at a rate of m^3 per second.'

1.



In the UK, some soft drinks are sold in cans.
75% of all these cans are made of aluminium.
In 2008, 5 billion aluminium cans were sold.

Given that 1 billion is 1000 million, calculate how many of the cans that were sold in 2008 were **not** made of aluminium.
Give your answer in standard form correct to two significant figures.

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[5]