1 (a) Write 4.7×10^{-1} as an ordinary number.

....

(1)

(b) Work out the value of $(2.4 \times 10^3) \times (9.5 \times 10^5)$
Give your answer in standard form.

....

(2)

(Total for Question 1 is 3 marks)

2 Work out the value of $\dfrac{2.645 \times 10^9}{1.15 \times 10^3}$

Give your answer in standard form.

....

(Total for Question 2 is 2 marks)

$\dfrac{2.645 \times 10^9}{1.15 \times 10^3}$

3 (a) Write 1.63×10^{-3} as an ordinary number.

....
(1)

(b) Write $438\,000$ in standard form.

....
(1)

(c) Work out $(4 \times 10^{3}) \times (6 \times 10^{-5})$
Give your answer in standard form.

....
(2)

(Total for Question 3 is 4 marks)

4 Work out $\quad \dfrac{0.06 \times 0.0003}{0.01}$

Give your answer in standard form.

....

(Total for Question 4 is 3 marks)

5 Work out $(13.8 \times 10^7) \times (5.4 \times 10^{-12})$
Give your answer as an ordinary number.

....

(Total for Question 5 is 2 marks)

6 (a) Write the number $0.000\,075\,47$ in standard form.

....

(1)

(b) Write 3.42×10^4 as an ordinary number.

....

(1)

(c) Work out $\dfrac{2.3 \times 10^4 \times 6.7 \times 10^3}{5 \times 10^{-8}}$

....

(2)

(Total for Question 6 is 4 marks)

7 Work out $(3.42 \times 10^{-7}) \div (7.5 \times 10^{-6})$
Give your answer in standard form.

....

(Total for Question 7 is 2 marks)

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8 (a) Write $32\,460\,000$ in standard form.

....
(1)

(b) Write 4.96×10^{-3} as an ordinary number.

....
(1)

Asma was asked to compare the following two numbers.

$$A = 6.212 \times 10^8 \quad \text{and} \quad B = 4.73 \times 10^9$$

She says,

"6.212 is bigger than 4.73 so A is bigger than B."

(c) Is Asma correct?
You must give a reason for your answer.

....

....

....
(1)

(Total for Question 8 is 3 marks)

9 (a) Write 0.00562 in standard form.

....

(1)

(b) Write 1.452×10^3 as an ordinary number.

....

(1)

(Total for Question 9 is 2 marks)

10 Write these numbers in order of size.
Start with the smallest number.

$$6.72 \times 10^5 \qquad 67.2 \times 10^{-4} \qquad 672 \times 10^4 \qquad 0.000\,672$$

....

(Total for Question 10 is 2 marks)

11 (a) Write 4.5×10^5 as an ordinary number.

....

(1)

(b) Write 0.007 in standard form.

....

(1)

(c) Work out $4.2 \times 10^3 + 5.3 \times 10^2$
Give your answer in standard form.

....

(2)

(Total for Question 11 is 4 marks)

12 (a) Write 6.75×10^{-4} as an ordinary number.

....
(1)

(b) Work out $\dfrac{2.56 \times 10^{6} \times 4.12 \times 10^{-3}}{1.6 \times 10^{-2}}$

Give your answer in standard form.

....
(2)

(Total for Question 12 is 3 marks)