

## Standard Form Past Paper Questions

1. Write each of the following numbers in Standard Form

a.  $73\ 400\ 000 = 7.34 \times 10^7$

b.  $0.00054 = 5.4 \times 10^{-4}$

2. Find, in standard form, the value of  $(3.6 \times 10^5) \div (7.8 \times 10^{-6}) = 4.6 \times 10^{10}$

3. Find, in standard form, the value of

a.  $(5.2 \times 10^{-4}) \times (4.1 \times 10^{-7}) = 2.132 \times 10^{-10}$

b.  $(8.4 \times 10^{-7}) \div (9.6 \times 10^6) = 8.75 \times 10^{-14}$

4. The following numbers have been written in standard form. Write each in decimal form:

a.  $(3.7 \times 10^6) = 3\ 700\ 000$

b.  $(8.2 \times 10^{-4}) = 0.00082$

5. Find, in standard form, the value of

a.  $(4.2 \times 10^8) \times (9.1 \times 10^4) = 3.822 \times 10^{13}$

b.  $(6.2 \times 10^{-9}) \div (8.3 \times 10^6) = 7.5 \times 10^{-16}$

6. Find, in standard form, the value of

a.  $(7.4 \times 10^{-5}) \times (3.9 \times 10^{-4}) = 2.886 \times 10^{-8}$

b.  $\frac{59639}{0.087} = 685507.7471 = 6.9 \times 10^5$

7. Write 0.0026 in standard form

$2.6 \times 10^{-3}$

8. Find, in standard form, the value of

a.  $(8.5 \times 10^{-3}) \times (9.6 \times 10^{11}) = 8160000000 = 8.16 \times 10^9$

b.  $\frac{4.27 \times 10^6}{6.54 \times 10^{-4}} = 6529051988 = 6.5 \times 10^9$

9. Write each of the following numbers in standard form

a.  $0.0000045 = 4.5 \times 10^{-6}$

b.  $35\ 700\ 000\ 000 = 3.57 \times 10^{10}$

10. Find, in standard form, the value of  $(2.7 \times 10^{-6}) \times (8.3 \times 10^{-5}) = 2.241 \times 10^{-10}$

11. Write each of the following numbers in standard form

a.  $3\ 895\ 584 = 3.9 \times 10^6$

b.  $0.0000002567 = 2.567 \times 10^{-7}$

12. Find, in standard form, the value of (NON-CALC QUESTION)

a.  $(4 \times 10^{-4}) \times (1.2 \times 10^{-5}) = (4 \times 1.2) \times (10^{-4} \times 10^{-5}) = 4.8 \times 10^{-9}$

b.  $\frac{3 \times 10^3}{4 \times 10^{-6}} = (3 \div 4) \times (10^3 \div 10^{-6}) = 0.75 \times 10^9$

$= (0.75 \times 10) \times (10^8)$

$= 7.5 \times 10^8$