

- 1) Work out the following, giving your answer in standard form.

a) $(6 \times 10^5) \times (8 \times 10^4)$

c) $\frac{3 \times 10^5}{6 \times 10^2}$

b) $(2 \times 10^5) + (3 \times 10^4)$

d) $(9.2 \times 10^0) \div (2 \times 10^2)$

- 2) A spaceship travelled for 5×10^3 hours at a speed of 9×10^4 km/h.

- a) Work out the distance travelled by the spaceship.

Give your answer in standard form.

Another spaceship travelled a distance of 2×10^7 km, last month.

This month it has travelled 5×10^6 km.

- b) Work out the total distance travelled by the spaceship over these past two months.

Give your answer as a normal (or ordinary) number.

- 3) Work out the following, giving your answer in standard form, correct to 2 significant figures.

a) $2.6 \times 10^3 \times 4.3 \times 10^4$

c) $\frac{9.435 \times 10^5}{3.28 \times 10^3}$

b) $(7.5 \times 10^5) \times (1.9 \times 10^{-2})$

d) $\frac{5.98 \times 10^6}{6.14 \times 10^{-2}}$

- 4) Work out the following, giving your answer in standard form correct to 3 significant figures.

a) $\frac{5.76 \times 10^7 + 3.89 \times 10^8}{7.18 \times 10^{-2}}$

c) $\frac{3 \times 10^6 \times 2 \times 10^7}{3 \times 10^5 + 2 \times 10^7}$

b) $\frac{7.2 \times 10^{-2} - 5.4 \times 10^{-1}}{9.25 \times 10^{-1}}$

d) $\frac{3 \times 3.2 \times 10^{12} \times 1.5 \times 10^{12}}{3.2 \times 10^{12} - 1.5 \times 10^{12}}$

- 5) A microsecond is 0.000 001 seconds.

- a) Write the number 0.000 001 in standard form.

A computer does a calculation in 3 microseconds.

- b) How many of these calculations can the computer do in 1 second?

Give your answer in standard form, correct to 3 significant figures.

- 6) 340 000 tomato seeds weigh 1 gram.

Each tomato seed weighs the same.

- a) Write the number 340 000 in standard form.

- b) Calculate the weight, in grams, of one tomato seed.

Give your answer in standard form, correct to 2 significant figures.

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