

Past Paper Questions – Standard Form

11. 420 000 carrot seeds weigh 1 gram.
Each carrot seed weighs the same.

(a) Write the number 420 000 in standard form.

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(1)

- (b) Calculate the weight, in grams, of one carrot seed.
Give your answer in standard form, correct to 2 significant figures.

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(2)

7. (i) Write 6 000 000 000 in standard form.

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(ii) Write 0.015 in standard form.

8. Work out

$$\frac{4.07 \times 10^3 \times 2.17 \times 10^5}{5.1 \times 10^{-4}}$$

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

6. A floppy disk can store 1 440 000 bytes of data.

(a) Write the number 1 440 000 in standard form.

A hard disk can store 2.4×10^9 bytes of data.

(b) Calculate the number of floppy disks needed to store the 2.4×10^9 bytes of data.

7. (a) Write 84 000 000 in standard form.

(b) Work out

$$\frac{84\,000\,000}{4 \times 10^{12}}$$

Give your answer in standard form.