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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    (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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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 \(2.4 \times 10^9\) bytes of data.

    (b) Calculate the number of floppy disks needed to store the \(2.4 \times 10^9\) 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.