



SPTA

N5 Homework

Sci. Notation (B)



Show all working – Calculator allowed.

Marks

1. A sesame seed weighs 3.6×10^{-6} kilograms.

The weight of a poppy seed is 8% of the weight of a sesame seed.

Calculate the weight of a poppy seed in kilograms.

Give your answer in scientific notation.

(2)

2. A pollen sample weighs 12 grams and contains 1.5×10^9 pollen grains.

Calculate the weight of one pollen grain in grams.

Give your answer in scientific notation.

(2)

3. a) The Earth is approximately spherical with a radius of 6400 kilometres.

Calculate the volume of the Earth giving your answer in scientific notation, correct to 2 significant figures.

(3)

- b) The approximate volume of the Moon is 2.2×10^{10} cubic kilometres.

Calculate how many times the Earth's volume is greater than the Moon's.

(2)

Total Marks: 9