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National 5 Mathematics

Exam Questions by Topic

Scientific Notation

2015 N5 Past Paper P2, Q6

1. (a) The Earth is approximately spherical with a radius of 6400 kilometers.

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

(3 marks)

 (b) The approximate volume of the Moon is 2.2×10^6 cubic kilometers.
Calculate how many times the Earth's volume is greater than the Moon's.

(2 marks)

2013 N5 Specimen P2, Q2

2. There are 3×10^5 platelets per millilitre of blood.

On average, a person has 5.5 litres of blood.

On average, how many platelets does a person have in their blood?

Give your answer in scientific notation. (2 marks)

N5 Practice Paper E, P2, Q1

3. $$E = mc^2$$

Find the value of E when $m = 3.6 \times 10^{-2}$ and $c = 3 \times 10^8$.

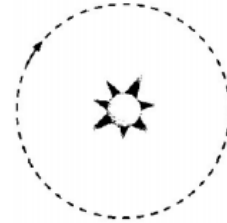Give your answer in scientific notation. (3 marks)

N5 Practice Paper F, P2, Q1

4. The orbit of a planet around a star is circular.

The radius of the orbit is 4.96×10^7 kilometres.

Calculate the circumference of the orbit.

Give your answer in scientific notation. (3 marks)