

Surname	
Other Names	
Candidate's Signature	

GCSE 9 - 1 Questions

Standard Form 2 - No Calculator

Calculator Not Allowed

INSTRUCTIONS TO CANDIDATES

- Write your name in the space provided.
- Write your answers in the spaces provided in this question paper.
- Answer ALL questions.
- Any working should be clearly shown in the spaces provided since marks may be awarded for partially correct solutions.
- You should have a ruler, compass and protractor where required.

Total Marks :

- 1) Alivia had a water tank in her house that holds ten thousand litres of water. Write this in standard form.

Answer.....[2]

- 2) Work out the value of 2000^3 . Write your answer in standard form

Answer.....[2]

- 3) Write each of the following number in standard form

a) 160000

Answer.....[2]

b) 0.0024

Answer.....[2]

- 4) The population of India in 2020 was approximately 1.38 billion people. Write this number in standard form.

Answer.....[2]

- 5) Write each of the following number in standard form

a) 0.0502

Answer.....[2]

b) 3060

Answer.....[2]

c) 31700000×100

Answer.....[2]

6) Jayvion was asked to calculate 3080×100 and write his answer in standard form. He worked his answer out as 3.8×10^5 . His teacher told him that he was wrong.

a) What did Jayvion do wrong?

[2]

b) What should the correct answer be?

Answer.....[2]

7) Write each of the following number in standard form

a) 237000

Answer.....[2]

b) 0.00384

Answer.....[2]

- 8) A factory produces light bulbs, and 3 out of 8000 are faulty. Karissa write down 3 divided by 8000 in standard form. What number did Karissa write down?

Answer.....[2]

- 9) Evaluate $1.4 \times 10^2 - 3.9 \times 10^{-1}$. Write your full answer in standard form.

Answer.....[2]

- 10) Work out $\frac{1.8 \times 10^5}{3 \times 10^2}$ Give your answer in standard form.

Answer.....[2]

11) Write each of the following number in standard form

a) Forty two thousand five hundred and six

Answer.....[2]

b) 0.000004302

Answer.....[2]

c) 0.0012×100

Answer.....[2]

12) Given that $M = 4 \times 10^5$ and N is 2×10^3 find the value of

a) $M \times N$

Answer.....[2]

b) $M \div N$

Answer.....[2]

- 13) 0.00005 0.0005 0.05 5 000 50 000

Choose from the numbers above to continue the statements below.
Use each number only once.

A spacecraft travels at 5×10^3 m/s or ... _____ m/s

A human hair has a diameter of 5×10^{-5} m or ... _____ m

The lowest temperature ever reached in a lab is 5×10^{-4} K or ... _____ K

One mouse weighs 1.63×10^{-2} kg. **Three** mice roughly weigh ... _____ kg

A satellite travels at 2.5×10^4 km/h. **Twice** this speed is... _____ km/h

(5 marks)