THIRD SPACE LEARNING

GCSE Exam Questions

Multiplying and Dividing Standard Form | Number

GCSE Exam Questions: Multiplying and Dividing Standard Form

1) Work out $(5 \times 10^3) \times (3 \times 10^2)$.

Circle the correct answer.

1.5×10^5 1.5×10^6 1.5×10^7 1.5×10^8

(1 mark)

2) Work out:

$$\frac{9.6 \times 10^7}{3.2 \times 10^3}$$

Give your answer in standard form.

.....

(2 marks)

3) The side of a square is 1.2×10^3 m.

Calculate the area of the square.

Give your answer in standard form.

..... m^2

(2 marks)

GCSE Exam Questions: Multiplying and Dividing Standard Form

4) Here are the radii of some planets:

Planet	**Radius (km)**
Earth	6.4×10^3
Jupiter	7.0×10^4
Mars	3.4×10^3
Neptune	2.5×10^4
Saturn	5.8×10^4

(a) Which planet has the smallest radius?

.....

(1)

(b) Work out the circumference of the Earth.

Write your answer in standard form correct to 3 significant figures.

..... km

(3)

(c) How many times bigger is Jupiter's radius than the radius of Mars?

Give your answer to the nearest whole number.

.....

(2)

(6 marks)

GCSE Exam Questions: Multiplying and Dividing Standard Form Answers

	Question	Answer	Marks
1)	Work out $(5 \times 10^3) \times (3 \times 10^2)$. Circle the correct answer. 1.5×10^5 1.5×10^6 1.5×10^7 1.5×10^8	1.5×10^6	**(1)**
2)	Work out: $\frac{9.6 \times 10^7}{3.2 \times 10^3}$ Give your answer in standard form.	3 or 30 000 3×10^4	**(1)** **(1)**
3)	The side of a square is $1.2 \times 10^3 m$. Calculate the area of the square. Give your answer in standard form.	$(1.2 \times 10^3)^2$ or 1.44 1.44×10^6	**(1)** **(1)**
4)	Here are the radii of some planets: **Planet** / **Radius (km)** Earth / 6.4×10^3 Jupiter / 7.0×10^4 Mars / 3.4×10^3 Neptune / 2.5×10^4 Saturn / 5.8×10^4		
(a)	Which planet has the smallest radius?	**(a)** Mars	**(1)**
(b)	Work out the circumference of the Earth. Write your answer in standard form correct to 3 significant figures.	**(b)** Diameter: $2 \times (6.4 \times 10^3) = 12800$ Circumference: $\pi \times 12800$ 4.02×10^4	**(1)** **(1)** **(1)**
(c)	How many times bigger is Jupiter's radius than the radius of Mars? Give your answer to the nearest whole number.	**(c)** $(7.0 \times 10^4) \div (3.4 \times 10^3)$ $= 20.58...$ 21 times	**(1)** **(1)**

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