



THIRD SPACE
LEARNING

GCSE Exam Questions

Converting To and From
Standard Form | Number

GCSE Exam Questions: Converting To and From Standard

1) (a) Write 8.24×10^{-5} as an ordinary number.

(1)

(b) Write 0.00568 in standard form.

(1)
(2 marks)

2) (a) Write 430,700 in standard form.

(b) Anna is asked to compare the following numbers.

$$A = 5.72 \times 10^7$$

$$B = 6.28 \times 10^5$$

She says, “6.28 is bigger than 5.72 so B is bigger than A ”.

Is Anna correct?

You must give a reason for your answer.

(1)
(2 marks)

3) Put these numbers in order of size. Start with the smallest.

$$0.0034 \quad 4.1 \times 10^{-4} \quad 0.24 \times 10^{-5} \quad 0.00062$$

(3 marks)

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- 4) (a) This table shows the weights of some planets.

Planet	Mass (kg)
Earth	5.972×10^{24}
Saturn	5.683×10^{26}
Mercury	3.285×10^{23}
Mars	6.39×10^{23}
Venus	4.867×10^{24}

Which planet in this list has the greatest mass?

(1)

- (b) Which planet in this list has the least mass?

(1)
(2 marks)

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	Question	Answer	Marks												
1) (a)	Write 8.24×10^{-5} as an ordinary number.	(a) 0.0000824	(1)												
(b)	Write 0.00568 in standard form.	(b) 5.68×10^{-3}	(1)												
2) (a)	Write 430,700 in standard form	(a) 4.307×10^5	(1)												
(b)	Anna is asked to compare the following numbers. $A = 5.72 \times 10^7$ $B = 6.28 \times 10^5$ She says, “6.28 is bigger than 5.72 so B is bigger than A”. Is Anna correct? You must give a reason for your answer.	(b) Anna is wrong because she did not compare the indices. A is 10^7 which has a larger place value than B .	(1)												
3)	Put these numbers in order of size. Start with the smallest. 0.0034 4.1×10^{-4} 0.24×10^{-5} 0.00062	0.24×10^{-5} 4.1×10^{-4} 0.00062 0.0034 Correctly converts all numbers to the same format for comparison. 3 numbers are correctly placed.	(1) (1) (1)												
4) (a)	This table shows the weights of some planets. <table><tr><th>Planet</th><th>Mass (kg)</th></tr><tr><td>Earth</td><td>5.972×10^{24}</td></tr><tr><td>Saturn</td><td>5.683×10^{26}</td></tr><tr><td>Mercury</td><td>3.285×10^{23}</td></tr><tr><td>Mars</td><td>6.39×10^{23}</td></tr><tr><td>Venus</td><td>4.867×10^{24}</td></tr></table> Which planet in this list has the greatest mass?	Planet	Mass (kg)	Earth	5.972×10^{24}	Saturn	5.683×10^{26}	Mercury	3.285×10^{23}	Mars	6.39×10^{23}	Venus	4.867×10^{24}	(a) Saturn	(1)
Planet	Mass (kg)														
Earth	5.972×10^{24}														
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Mars	6.39×10^{23}														
Venus	4.867×10^{24}														
(b)	Which planet in this list has the least mass?	(b) Mercury	(1)												