

# IGCSE Mathematics – STANDARD FORM

## Oct 03 Paper 2

- 18 The population of Europe is 580 000 000 people.  
The land area of Europe is 5 900 000 square kilometres.

(a) Write 580 000 000 in standard form.

Answer (a)..... [1]

(b) Calculate the number of people per square kilometre, to the nearest whole number.

Answer (b) ..... [2]

(c) Calculate the number of square metres per person.

Answer (c)..... m<sup>2</sup> [2]

## May 04 Paper 2

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- 10 The area of a small country is 78 133 square kilometres.

(a) Write this area correct to 1 significant figure.

Answer(a) ..... km<sup>2</sup> [1]

(b) Write your answer to part (a) in standard form.

Answer(b) ..... km<sup>2</sup> [1]

## Oct 04 Paper 2

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- 8 In 1997 the population of China was  $1.24 \times 10^9$ .  
In 2002 the population of China was  $1.28 \times 10^9$ .  
Calculate the percentage increase from 1997 to 2002.

Answer ..... % [2]

## Oct 05 Paper 2

- 10 The mass of the Earth is  $\frac{1}{95}$  of the mass of the planet Saturn.

The mass of the Earth is  $5.97 \times 10^{24}$  kilograms.

Calculate the mass of the planet Saturn, giving your answer in standard form, correct to 2 significant figures.

Answer (a) ..... kg [1]

(b) Write your answer to part (a) in standard form.

Answer (b) ..... kg [1]

## May 05 Paper 2

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- 3 A block of cheese, of mass 8 kilograms, is cut by a machine into 500 equal slices.

(a) Calculate the mass of one slice of cheese in kilograms.

## May 06 Paper 2

Answer ..... kg [3]

- 1 The planet Neptune is 4 496 000 000 kilometres from the Sun.  
Write this distance in standard form.

Answer ..... km [1]