Bounds
Difficulty: Easy
Question Paper 1

Level	IGCSE
Subject	Maths (0580/0980)
Exam Board	CIE
Topic	Number
Sub-Topic	Bounds
Paper	Paper 2
Difficulty	Easy
Booklet	Question Paper 1

Time allowed: **37 minutes**

Score: **/29**

Percentage: **/100**

Grade Boundaries:

CIE IGCSE Maths (0580)

A*	A	B	C	D	E
>88%	76%	63%	51%	40%	30%

CIE IGCSE Maths (0980)

9	8	7	6	5	4	3
>94%	85%	77%	67%	57%	47%	35%

Question 1

The length of a car is 4.2 m, correct to 1 decimal place.

Write down the upper bound and the lower bound of the length of this car. [2]

Question 2

The sides of an equilateral triangle are 9.4 cm, correct to the nearest millimetre. [2]

Work out the upper bound of the perimeter of this triangle.

Question 3

A metal pole is 500 cm long, correct to the nearest centimetre.
The pole is cut into rods each of length 5.8 cm, correct to the nearest millimetre. [3]

Calculate the largest number of rods that the pole can be cut into.

Question 4

A rectangle has length 5.8 cm and width 2.4 cm, both correct to 1 decimal place. [3]

Calculate the lower bound and the upper bound of the perimeter of this rectangle.

Question 5

One year ago Ahmed's height was 114 cm.
Today his height is 120 cm.
Both measurements are correct to the nearest centimetre. [2]

Work out the upper bound for the increase in Ahmed's height.

Question 6

The length, l metres, of a football pitch is 96m, correct to the nearest metre.

[2]

Complete the statement about the length of this football pitch.

Question 7

The length, p cm, of a car is 440 cm, correct to the nearest 10 cm.

Complete the statement about p. [2]

Question 8

An equilateral triangle has sides of length 16.1 cm, correct to the nearest millimetre.

Find the lower and upper bounds of the perimeter of the triangle. [2]

Question 9

A large water bottle holds 25 litres of water correct to the nearest litre.
A drinking glass holds 0.3 litres correct to the nearest 0.1 litre.

Calculate the lower bound for the number of glasses of water which can be filled from the bottle.

[3]

Question 10

A carton contains 250 ml of juice, correct to the nearest millilitre.

Complete the statement about the amount of juice, j ml, in the carton.

[2]

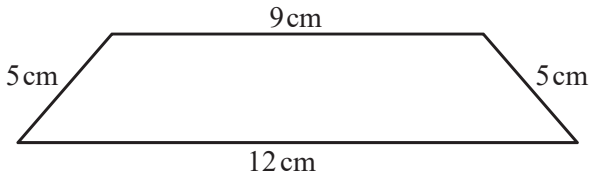
Question 11

The sides of a rectangle are 6.3 cm and 4.8cm, each correct to 1 decimal place.

Calculate the upper bound for the area of the rectangle.

[2]

Question 12



NOT TO SCALE

The diagram shows a quadrilateral.
The lengths of the sides are given to the nearest centimetre.

Calculate the upper bound of the perimeter of the quadrilateral.

[2]

Question 13

The cost of making a chair is $28 correct to the nearest dollar.

Calculate the lower and upper bounds for the cost of making 450 chairs. [2]