BOUND

Pearson Edexcel - Thursday 9 June 2016 - Paper 2 (Calculator) Higher Tier

1.

21 $I = 5(v - u)$

$v = 14$ correct to 2 significant figures
$u = 8.7$ correct to 2 significant figures

Work out the upper bound for the value of I.
You must show your working.

....

(Total for Question 21 is 3 marks)

Pearson Edexcel - Friday 6 November 2015 - Paper 2 (Calculator) Higher Tier

2.

19 The value of p is 4.3
    The value of q is 0.4

Both p and q are given correct to the nearest 0.1

(a) Write down the lower bound for p.

....

(1)

$r = p + \dfrac{1}{q}$

(b) Work out the upper bound for r.
    You must show all your working.

....

(3)

(Total for Question 19 is 4 marks)

Pearson Edexcel - Monday 8 June 2015 - Paper 2 (Calculator) Higher Tier

3.

24 Steve travelled from Ashton to Barnfield.

He travelled 235 miles, correct to the nearest 5 miles.
The journey took him 200 minutes, correct to the nearest 5 minutes.

Calculate the lower bound for the average speed of the journey.
Give your answer in **miles per hour**, correct to 3 significant figures.
You must show all your working.

.... mph

(Total for Question 24 is 4 marks)

Pearson Edexcel - Friday 14 June 2013 - Paper 2 (Calculator) Higher Tier

4.

23 Dan does an experiment to find the value of π.
He measures the circumference and the diameter of a circle.

He measures the circumference, C, as 170 mm to the nearest millimetre.
He measures the diameter, d, as 54 mm to the nearest millimetre.

Dan uses $\pi = \dfrac{C}{d}$ to find the value of π.

Calculate the upper bound and the lower bound for Dan's value of π.

upper bound = ...

lower bound = ...

(Total for Question 23 is 4 marks)

Pearson Edexcel - Monday 14 November 2011 - Paper 4 (Calculator) Higher Tier

5.

25. Steve measured the length and the width of a rectangle.
He measured the length to be 645 mm correct to the nearest 5 mm.
He measured the width to be 400 mm correct to the nearest 5 mm.

Calculate the lower bound for the area of this rectangle.
Give your answer correct to 3 significant figures.

.... mm²

(Total 3 marks)

Pearson Edexcel - Friday 10 June 2011 - Paper 4 (Calculator) Higher Tier

6.

26. The voltage V of an electronic circuit is given by the formula

$$V = I R$$

where I is the current in amps
and R is the resistance in ohms.

Given that $V = 218$ correct to 3 significant figures,
               $R = 12.6$ correct to 3 significant figures,

calculate the lower bound of I.

....

(Total 3 marks)

Pearson Edexcel - Friday 12 November 2010 - Paper 4 (Calculator) Higher Tier
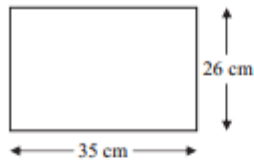
7.

24.

26 cm

35 cm

Diagram **NOT** accurately drawn

The length of the rectangle is 35 cm correct to the nearest cm.
The width of the rectangle is 26 cm correct to the nearest cm.

Calculate the upper bound for the area of the rectangle.
Write down all the figures on your calculator display.

....cm²

(Total 3 marks)

Pearson Edexcel - Friday 11 June 2010 - Paper 4 (Calculator) Higher Tier

8.

21. A field is in the shape of a rectangle.
The width of the field is 28 metres, measured to the nearest metre.

(a) Work out the upper bound of the width of the field.

.... metres
(1)

The length of the field is 145 metres, measured to the nearest 5 metres.

(b) Work out the upper bound for the perimeter of the field.

.... metres
(3)

(Total 4 marks)

9.