ERROR INTERVALS

Pearson Edexcel - Thursday 6 June 2019 - Paper 2 (Calculator) Foundation Tier

1.

25 Sally used her calculator to work out the value of a number y.

The answer on her calculator display began

8.3

Complete the error interval for y.

.... $\leqslant y <$ ....

(Total for Question 25 is 2 marks)

Pearson Edexcel - Wednesday 8 November 2017 - Paper 3 (Calculator) Foundation Tier

2.

23 (a) Find the value of the reciprocal of 1.6
   Give your answer as a decimal.

....

(1)

Jess rounds a number, x, to one decimal place.
The result is 9.8

(b) Write down the error interval for x.

....

(2)

(Total for Question 23 is 3 marks)

Pearson Edexcel – Specimen 2 - Paper 3 (Calculator) Foundation Tier

3.

25 Jim rounds a number, x, to one decimal place.
The result is 7.2

Write down the error interval for x.

....

(Total for Question 25 is 2 marks)

Pearson Edexcel – Specimen 1 - Paper 3 (Calculator) Foundation Tier

4.

22 The length, L cm, of a line is measured as 13 cm correct to the nearest centimetre.

Complete the following statement to show the range of possible values of L

.... $\leqslant L <$ ....

(Total for Question 22 is 2 marks)

OCR – Tuesday 03 November 2020- Morning - Paper 1 (Calculator) Foundation Tier

5.

16 The height, h, of a lorry is 4.3 metres, correct to 1 decimal place.

Complete the error interval for the height, h.

.... $\leqslant h <$ .... **[2]**

OCR Tuesday 11 June 2019 – Morning (Calculator) Foundation Tier

6.

26 **(a)** A number, g, is given as 4.05, correct to 2 decimal places.

Complete the error interval for g.

(a) ....$\leqslant g <$.......................... **[2]**

(b) A number, h, is given as 3, truncated to 1 significant figure.

Complete the error interval for h.

(b) $3 \leqslant h <$... **[1]**

OCR Tuesday 12 June 2018– Morning (Calculator) Foundation Tier

7.

9 The length, a, of a pencil is 15.3 cm, correct to 1 decimal place.

Complete the error interval for the length of the pencil.

.... $\leqslant a <$ ....**[2]**

OCR Wednesday 8 November 2017– Morning (Calculator) Foundation Tier

8.

4   (a)   Fill in each missing number.

   (i)   24 − .... = 36   [1]

   (ii) $\sqrt{\rule{3cm}{0pt}}$ = 16   [1]

   (b)   The length of a line is 10.4 cm, correct to 1 decimal place.

   Write down the shortest possible length of the line.

                                                        (b)   .... cm [1]

OCR Tuesday 13 June 2017 – Morning (Calculator) Foundation Tier

9.

13   (a)   The mass, m tonnes, of a girder is 12.7, correct to 1 decimal place.

   Complete the error interval for the mass, m.

                                        (a)   .... $\leqslant m <$ .... [2]

   (b)   The length of a piece of wood is given as 8 metres, correct to the nearest metre.
   The length of a metal rod is given as 8.5 metres, correct to 1 decimal place.

   Show that the piece of wood could be longer than the metal rod.   [2]

10.

20   To the nearest 1000, there are 18 000 people at a festival.

20 (a)   Write down the minimum possible number of people at the festival.

[1 mark]

Answer _____

20 (b)   Write down the maximum possible number of people at the festival.

[1 mark]

Answer _____

AQA Thursday 11 June 2019 – Morning (Calculator) Foundation Tier

11.

21   To the nearest pound, Jon has £9
To the nearest 50p, Ellie has £6.50

Work out the maximum possible total amount of money.

[3 marks]

Answer £_____

AQA Monday 12 November 2018 – Morning (Calculator) Foundation Tier

12.

21   The length of a table is 110 cm to the nearest cm

Complete the error interval.

[2 marks]

_____ cm $\leqslant$ length < _____ cm

13.

8   Sam, Carl and Erik share 40 sweets.

Erik gets the largest share.

What is the **smallest** possible number of sweets that Erik could get?

[2 marks]

_____

_____

_____

_____

_____

_____

_____

Answer _____

14.

28   The length of each side of a regular pentagon is 8.4 cm to 1 decimal place.

28 (a)   Complete the error interval for the length of one side.

[2 marks]

_____

_____ cm ⩽ length < _____ cm

28 (b)   Complete the error interval for the perimeter.

[1 mark]

_____

_____ cm ⩽ perimeter < _____ cm

15.

23 (a)   The length of a pipe is 6 metres to the nearest metre.

Complete the error interval for the length of the pipe.

[2 marks]

Answer _____ m ⩽ length < _____ m

23 (b)   The length of a different pipe is 4 metres to the nearest metre.
Olly says,

"The total length of the two pipes is 11 metres to the nearest metre."

Give an example to show that he could be correct.

[2 marks]

_____

_____