Error Intervals

SCAN ME

REVISE THIS TOPIC

CHECK YOUR ANSWERS

SCAN ME

1 When rounded to 2 decimal places, $n = 3.17$
Complete the error interval for n. **[2 marks]**

_____ $\leqslant n <$ _____

2 When rounded to 1 decimal place, $p = 6.2$
Complete the error interval for p. **[2 marks]**

_____ $\leqslant p <$ _____

3 When rounded to 2 decimal places, $T = 8.52$
Complete the error interval for T. **[2 marks]**

_____ $\leqslant T <$ _____

4 When rounded to 1 decimal place, $k = 3.1$
Complete the error interval for k. **[2 marks]**

_____ $\leqslant k <$ _____

$\frac{\quad}{8}$

5 When rounded to 1 decimal place, $r = 6.0$
Complete the error interval for r. **[2 marks]**

_____ $\leqslant r <$ _____

6 When rounded to 3 decimal places, $m = 4.292$
Complete the error interval for m. **[2 marks]**

_____ $\leqslant m <$ _____

7 When rounded to 2 decimal places, $v = 3.07$
Complete the error interval for v. **[2 marks]**

_____ $\leqslant v <$ _____

8 When rounded to 2 decimal places, $h = 0.71$
Complete the error interval for h. **[2 marks]**

_____ $\leqslant h <$ _____

Solutions

9 When rounded to the nearest integer, $x = 23$
Complete the error interval for x. **[2 marks]**

_____ $\leqslant x <$ _____

10 When rounded to the nearest 10, $y = 70$
Complete the error interval for y. **[2 marks]**

_____ $\leqslant y <$ _____

11 When rounded to the nearest 10, $d = 72000$
Complete the error interval for d. **[2 marks]**

_____ $\leqslant d <$ _____

12 When rounded to the nearest 100, $w = 41600$
Complete the error interval for w. **[2 marks]**

_____ $\leqslant w <$ _____

16

13 When rounded to the nearest 20, $a = 360$
Complete the error interval for a. **[2 marks]**

_____ $\leqslant a <$ _____

14 When rounded to 2 significant figures, $b = 27000$
Complete the error interval for b. **[2 marks]**

_____ $\leqslant b <$ _____

15 When rounded to 1 significant figure, $g = 800$
Complete the error interval for g. **[2 marks]**

_____ $\leqslant g <$ _____

16 When rounded to 3 significant figures, $C = 3.12$
Complete the error interval for C. **[2 marks]**

_____ $\leqslant C <$ _____

Solutions

17 When rounded to 2 significant figures, $H = 0.0068$
Complete the error interval for H. **[2 marks]**

_____ $\leqslant H <$ _____

18 The length of a football pitch is 94 m correct to the nearest metre.
Complete the error interval for the length of the football pitch. **[2 marks]**

_____ m $\leqslant$ length $<$ _____ m

19 The mass of an apple is 100 g correct to the nearest gram.
Complete the error interval for the mass of the apple. **[2 marks]**

_____ g $\leqslant$ mass $<$ _____ g

20 The capacity of a drinks can is 330 ml correct to the nearest millilitre.
Complete the error interval for the capacity of the drinks can. **[2 marks]**

_____ ml $\leqslant$ capacity $<$ _____ ml

16

Turn over ►

21 When truncated to 1 digit, $R = 4$
Complete the error interval for R. **[2 marks]**

_____ $\leqslant R <$ _____

22 When truncated to 2 digits, $P = 36$
Complete the error interval for P. **[2 marks]**

_____ $\leqslant P <$ _____

23 When truncated to 1 decimal place, $Y = 8.7$
Complete the error interval for Y. **[2 marks]**

_____ $\leqslant Y <$ _____

24 When truncated to 2 decimal places, $U = 5.24$
Complete the error interval for U. **[2 marks]**

_____ $\leqslant U <$ _____

Solutions

25 The number of students attending a school is 800, rounded to 1 significant figure.

25 (a) Write down the minimum possible number of students that attend the school.

[1 mark]

Answer _____

25 (b) Write down the maximum possible number of students that attend the school.

[1 mark]

Answer _____

26 Sam checks the amount of money in his pocket.
To the nearest pound, he has £4.00

26 (a) Write down the minimum amount of money Sam could have in his pocket.

[1 mark]

Answer £_____

26 (b) Write down the maximum amount of money Sam could have in his pocket.

[1 mark]

Answer £_____

12

Solutions