

## Error Intervals



## REVISE THIS **TOPIC**

A number, n, is rounded to 2 decimal places. The result is 3.17

Complete the error interval for n.

$$3.165 \le n < 3.175$$

(Total for Question 1 is 2 marks)

A number, p, is rounded to 1 decimal place. The result is 6.2

Complete the error interval for p.

$$6.15 \le p < 6.25$$

(Total for Question 2 is 2 marks)

A number, T, is rounded to 2 decimal places. The result is 8.52

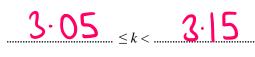
Complete the error interval for *T*.

$$8.515_{\leq T <} 8.525$$

(Total for Question 3 is 2 marks)

A number, *k*, is rounded to 1 decimal place. The result is 3.1

Complete the error interval for k.



(Total for Question 4 is 2 marks)









5 A number, r, is rounded to 1 decimal place.

The result is 6.0

Complete the error interval for r.

 $5.95 \le 1000$ 

(Total for Question 5 is 2 marks)

**6** A number, *m*, is rounded to 3 decimal places. The result is 4.292

Complete the error interval for m.

 $4 \cdot 2915 \le m < 4 \cdot 2925$ 

(Total for Question 6 is 2 marks)

7 A number, *v*, is rounded to 2 decimal places. The result is 3.07

Complete the error interval for v.

3.065 sec 3.075

(Total for Question 7 is 2 marks)

**8** A number, *h*, is rounded to 2 decimal places. The result is 0.71

Complete the error interval for h.

 $0.705_{\leq h} < 0.715$ 

(Total for Question 8 is 2 marks)



9 A number, x, is rounded to the nearest integer The result is 23

Complete the error interval for x.

22.5  $\leq x < 23.5$ 

(Total for Question 9 is 2 marks)

**10** A number, *y*, is rounded to the nearest 10. The result is 70

Complete the error interval for y.

65 <sub>≤y</sub> 75

(Total for Question 10 is 2 marks)

11 A number, d, is rounded to the nearest 1000. The result is 72000

Complete the error interval for d.

 $71500_{\leq d} < 72500$ 

(Total for Question 11 is 2 marks)

**12** A number, w, is rounded to the nearest 100 The result is 41600

Complete the error interval for w.

41550 < w < 41650

(Total for Question 12 is 2 marks)



**13** A number, *a*, is rounded to the nearest 20 The result is 360

Complete the error interval for a.

 $350_{\leq a \leq 370}$ 

(Total for Question 13 is 2 marks)

**14** A number, *b*, is rounded to 2 significant figures. The result is 27000

Complete the error interval for b.

16500 <sub>sb</sub> 27500

(Total for Question 14 is 2 marks)

**15** A number, *g*, is rounded to 1 significant figure. The result is 800

Complete the error interval for *g*.

750 <u>sg<</u> **850** 

(Total for Question 15 is 2 marks)

**16** A number, *C*, is rounded to 3 significant figures The result is 3.12

Complete the error interval for *C*.

3.115 <sub>SC</sub> 3.125

(Total for Question 16 is 2 marks)



4

**17** A number, *H*, is rounded to 2 significant figures The result is 0.0068

Complete the error interval for *H*.

 $0.00675 \le H < 0.00685$ 

(Total for Question 17 is 2 marks)

**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.

93.5 m  $\leq length < \dots$ 

(Total for Question 18 is 2 marks)

19 The mass of an apple is 100 g correct to the nearest gram.

Complete the error interval for the mass of the apple.

(Total for Question 19 is 2 marks)

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.

324.5 ml  $\leq$  capacity  $\leq$ 

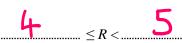
(Total for Question 20 is 2 marks)



**21** A number, *R*, is truncated to 1 digit.

The result is 4

Complete the error interval for *R*.

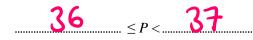


(Total for Question 21 is 2 marks)

**22** A number, *P*, is truncated to 2 digits.

The result is 36

Complete the error interval for *P*.



(Total for Question 22 is 2 marks)

**23** A number, *Y*, is truncated to 1 decimal place.

The result is 8.7

Complete the error interval for *Y*.

(Total for Question 23 is 2 marks)

**24** A number, *U*, is truncated to 2 decimal places.

The result is 5.24

Complete the error interval for U.

 $5.24 \leq U \leq 5.25$ 

(Total for Question 24 is 2 marks)

