



Error Intervals

REVISE THIS
TOPIC

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

Complete the error interval for n .

$$3.165 \leq n < 3.175$$

(Total for Question 1 is 2 marks)

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

Complete the error interval for p .

$$6.15 \leq p < 6.25$$

(Total for Question 2 is 2 marks)

- 3 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)

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

Complete the error interval for k .

$$3.05 \leq k < 3.15$$

(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 .

$$5.95 \leq r < 6.05$$

(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 .

$$4.2915 \leq m < 4.2925$$

(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 .

$$3.065 \leq v < 3.075$$

(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 .

$$65 \leq y < 75$$

(Total for Question 10 is 2 marks)

- 11 A number, d , is rounded to the nearest 10.
The result is 72000

Complete the error interval for d .

$$71995 \leq d < 72005$$

(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 .

$$41550 \leq w < 41650$$

(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 .

$$\underline{350} \leq a < \underline{370}$$

(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 .

$$\underline{26500} \leq b < \underline{27500}$$

(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 .

$$\underline{750} \leq g < \underline{850}$$

(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 .

$$\underline{3.115} \leq C < \underline{3.125}$$

(Total for Question 16 is 2 marks)





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

Complete the error interval for H .

$$0.00675 \leq H < 0.00685$$

(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.

$$93.5 \text{ m} \leq \text{length} < 94.5 \text{ m}$$

(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.

$$99.5 \text{ g} \leq \text{mass} < 100.5 \text{ g}$$

(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.

$$329.5 \text{ ml} \leq \text{capacity} < 330.5 \text{ ml}$$

(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 .

$$\underline{\quad 4 \quad} \leq R < \underline{\quad 5 \quad}$$

(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 .

$$\underline{\quad 36 \quad} \leq P < \underline{\quad 37 \quad}$$

(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 .

$$\underline{\quad 8.7 \quad} \leq Y < \underline{\quad 8.8 \quad}$$

(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 .

$$\underline{\quad 5.24 \quad} \leq U < \underline{\quad 5.25 \quad}$$

(Total for Question 24 is 2 marks)

