



Name: _____

Date: _____

1. A length, x , is measured as 8 cm to the nearest centimetre.
Write down the error interval for x .

$7.5 < x \leq 8.5$ (2 marks)

2. A mass, m , is measured as 42 kg to the nearest kilogram.
Write down the error interval for m .

$41.5 < m \leq 42.5$ (2 marks)

3. A time, t , is measured as 3.7 seconds to 1 decimal place.
Write down the error interval for t .

$3.65 \leq t < 3.75$ (2 marks)

4. A distance, d , is measured as 12.4 m to 1 decimal place.
Write down the error interval for d .

$12.35 \leq d < 12.45$ (2 marks)

5. A temperature, T , is measured as 18.62°C to 2 decimal places.
Write down the error interval for T .

$18.615 \leq T < 18.625$ (2 marks)

6. A volume, V , is measured as 7.384 litres to 3 decimal places.
Write down the error interval for V .

$7.3835 \leq V < 7.3845$ (2 marks)

7. A height, h , is measured as 150 cm to the nearest 10 cm.
Write down the error interval for h .

$145 \leq h < 155$ (2 marks)

8. A population, P , is estimated as 2,350 to the nearest 10.
Write down the error interval for P .

$2345 \leq P < 2355$ (2 marks)

9. A distance, d , is measured as 4,600 m to the nearest 100 m.
Write down the error interval for d .

$4550 \leq d < 4650$ (2 marks)

10. A length, x , is measured as 25 mm to the nearest 5 mm.
Write down the error interval for x .

$22.5 \leq x < 27.5$ (2 marks)



11. A mass, M , is measured as 80 g to the nearest 10 g.
Write down the error interval for M .

$75 \leq M < 85$ (2 marks)

12. A speed, x , is measured as 3.50 m/s to 3 significant figures.
Write down the error interval for x .

$3.495 \leq x < 3.505$ (2 marks)

13. A weight, W , is measured as 0.087 kg to 2 significant figures.
Write down the error interval for W .

$0.0855 \leq W < 0.0875$ (2 marks)

14. A distance, D , is measured as 6,300 m to 2 significant figures.
Write down the error interval for D .

$6,250 \leq D < 6,350$ (2 marks)

15. A number lies in the interval

$45.5 \leq x < 46.5$

What value would x be recorded as if it were rounded to the nearest whole number?

$x = 46$ (2 marks)

16. A number lies in the interval

$7.35 \leq x < 7.45$

What value would x be recorded as if it were rounded to 1 decimal place?

$x = 7.4$ (2 marks)

17. A number lies in the interval

$995 \leq x < 1005$

What value would x be recorded as if it were rounded to the nearest 10?

$x = 1000$ (2 marks)

Higher Only

18. A length, x , is recorded as 4.8 m, truncated to 1 decimal place.
Write down the error interval for x .

$4.8 \leq x < 4.9$ (2 marks)

Higher Only

19. A calculator display shows only the first 3 digits of a positive number, N .

The display shows 4.38

Write down the error interval for N .

$4.38 \leq N < 4.39$ (2 marks)

