

Name: _____

Date: _____

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

..... < x ≤ (2 marks)

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

..... < m ≤ (2 marks)

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

..... < t ≤ (2 marks)

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

..... < d ≤ (2 marks)

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

..... < T ≤ (2 marks)

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

..... < V ≤ (2 marks)

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

..... < h ≤ (2 marks)

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

..... < P ≤ (2 marks)

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

..... < d ≤ (2 marks)

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

..... < x ≤ (2 marks)

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

..... < M ≤ (2 marks)

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

..... < x ≤ (2 marks)

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

..... < W ≤ (2 marks)

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

..... < D ≤ (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 = (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 = (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 = (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 .

..... < x ≤ (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 .

..... < N ≤ (2 marks)

