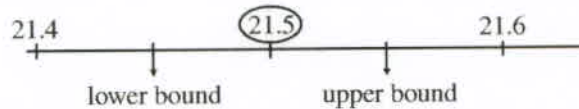


- 2 The height of a church tower is 42 m, measured to the nearest metre.
Write down (a) the lower bound (b) the upper bound.
- 3 The diameter of a one pound coin is 21.5 mm, measured to the nearest 0.1 mm.



Write down (a) the lower bound (b) the upper bound

- 4 A baby weighs 3.6 kg, measured to the nearest 0.1 kg.
Write down (a) the lower bound (b) the upper bound.
- 5 Copy and complete the table.

| | lower bound | upper bound |
|--|-------------|-------------|
| (a) length = 79 cm, to nearest cm | | |
| (b) mass = 32.3 kg, to nearest 0.1 kg | | |
| (c) length = 9.1 cm, to nearest 0.1 cm | | |
| (d) volume = 15.7 m ³ , to nearest 0.1 m ³ | | |
| (e) width = 6.32 cm, to nearest 0.01 cm | | |
| (f) mass = 8.17 g, to nearest 0.01 g | | |

- 6 A coin weighs 10.3 g, correct to one decimal place. What is the least possible weight of the coin?
- 7 A famous rock singer has a fortune of £24,712,000, correct to the nearest £1000.
What is the greatest amount of money the rock singer might have?
- 8 The width of a field is 530 m, correct to the nearest 10 m. What is the least possible width of the field?
- 9 In a 100 m race a sprinter is timed at 10.12 seconds to the nearest 0.01 second. Write down the least possible time.
- 10 Copy and complete each statement. Part (a) is done as an example.
(a) A mass m is 48 g, to the nearest g, so $47.5 \leq m < 48.5$.
(b) A length l is 92.6 mm, to the nearest 0.1 mm, so $92.55 \leq l < \square$.
(c) A diameter d is 16.2 cm, to the nearest 0.1 cm, so $\square \leq d < \square$.
(d) A capacity c is 1200 l, to the nearest 100 l, so $\square \leq c < 1250$.
(e) A height h is 3.86 m, to the nearest 0.01 m, so $\square \leq h < \square$.
- 11 The capacity of a liquid is measured at 1.4 litres, correct to the nearest 0.2 litres.
Write down the upper and lower bounds.
- 12 The length of a park is measured at 2.2 km, correct to the nearest 50 m. Write down the upper and lower bounds.