



GCSE Maths

Numbers

Bounds and Accuracy - Answers

Simple Answers

1. 345.8
2. 6,400
3. 0.076
4. Lower bound = 4.25, Upper bound = 4.35
5. Lower bound = 11.5 cm, Upper bound = 12.5 cm

Medium Answers

6. $2.45 \leq w < 2.55$
7. 0.00438
8. Lower bound = 17.8 cm, Upper bound = 18.2 cm
9. 7.86499999... or 7.865
10. $3.15 \leq t < 3.25$

Difficult Answers

11. Lower bound = 100.33 m^2 , Upper bound = 102.91 m^2
12. Percentage error = 0.19%
13. Upper bound = $\pi(6.05)^2(10.05) = 1152.24 \text{ cm}^3$
14. Maximum speed = 11.88 m/s
15. Percentage error = 0.137%