

Significant figures and conversions:

1. Give the name for each of the following multiples of the meter: (A) 1/100 m (B) 1/1000 m (C) 1000 m
2. Convert each of the following measurements to meters (A) 42.3 cm (B) 6.2 km (C) 4.5 mm
3. How many significant digits in each of the following measurements? (A) 0.0003 m (B) 64.01 m (C) 80.0010 m (D) 230000
4. Add or subtract as indicated: (A) $16.2\text{ m} + 5.008\text{ m} + 13.44\text{ m}$ (B) $15.07\text{ kg} - 12.0\text{ kg}$ (C) $34.11\text{ kg} + 34\text{ g}$
5. A water tank has a mass of 3.64 kg when empty and 51.8 kg when filled. What is the mass of the water in the tank?
6. The length of a room is 16.40 m, the width is 4.5 m and the height is 3.26 m. What is the volume of air which is enclosed in the room?