## **Significant Digits and Rounding Off Practice**

- 1. State the number of significant digits.
- a) 7.651 mm
- b) 20.2 m/s
- c) 50.0 cm
- d) 0.084 km
- 2. Round the following values to three significant digits.
- a) 32.674 km
- b) 0.003 922 g
- c) 107.51 s
- 3. Complete the following calculations by providing the correctly rounded answer with units.
- a) 22.4 h x 0.1 mm/h
- b) 465 km travelled in 5.21 h
- c)  $18 \text{ cm}^3 \text{ x } 1.10 \text{ g/cm}^3$
- d) 72.5 min x 1 h/60 min
- e) 17.5 mL + 95 mL + 8.25 mL
- f) 32.1 m + 960 m + 20.02 m
- g) 0.2 cm + 23.91 cm + 0.62 cm
- h) 13.63 h 0.5 h
- i) 35.1 mm + 67.04 mm
- j) 7.52 s + 8.678 s + 0.24 s
- 4. Determine the area of the following shapes to the correct number of significant digits.
- a) A rectangle with a base of 100.0 m and a height of 12 m
- b) A triangle with a base of 8.23 cm and a height of 0.68 cm