

Exercise 49

How many significant figures are contained in each of the following measurements?

- (a) 53 cm
- (b) 2.05×10^8 m
- (c) 86,002 J
- (d) 9.740×10^4 m/s
- (e) 10.0613 m³
- (f) 0.17 g/mL
- (g) 0.88400 s

Solution

- (a) 2 significant figures
- (b) 3 significant figures
- (c) 5 significant figures
- (d) 4 significant figures
- (e) 6 significant figures
- (f) 2 significant figures
- (g) 5 significant figures