

**Exercise 1.46**

Indicate the number of significant figures in each of the following measured quantities: (a) 3.774 km, (b) 205 m<sup>2</sup>, (c) 1.700 cm, (d) 350.00 K, (e) 307.080 g, (f)  $1.3 \times 10^3$  m/s.

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**Solution**

- (a) 3.774 km - 4 significant figures
- (b) 205 m<sup>2</sup> - 3 significant figures
- (c) 1.700 cm - 4 significant figures
- (d) 350.00 K - 5 significant figures
- (e) 307.080 g - 6 significant figures
- (f)  $1.3 \times 10^3$  m/s - 2 significant figures