

## Exercise 1.6

Identify each of the following as measurements of length, area, volume, mass, density, time, or temperature: (a) 25 ps, (b) 374.2 mg, (c) 77 K, (d) 100,000 km<sup>2</sup>, (e) 1.06 μm, (f) 16 nm<sup>2</sup>, (g) −78 °C, (h) 2.56 g/cm<sup>3</sup>, (i) 28 cm<sup>3</sup>. [Section 1.5]

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### Solution

- (a) 25 ps - Time
- (b) 374.2 mg - Mass
- (c) 77 K - Temperature
- (d) 100,000 km<sup>2</sup> - Area
- (e) 1.06 μm - Length
- (f) 16 nm<sup>2</sup> - Area
- (g) −78 °C - Temperature
- (h) 2.56 g/cm<sup>3</sup> - Density
- (i) 28 cm<sup>3</sup> - Volume