

## Exercise 48

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

- (a) 38.7 g
- (b)  $2 \times 10^{18}$  m
- (c) 3,486,002 kg
- (d)  $9.74150 \times 10^{-4}$  J
- (e) 0.0613 cm<sup>3</sup>
- (f) 17.0 kg
- (g) 0.01400 g/mL

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### Solution

- (a) 3 significant figures
- (b) 1 significant figure
- (c) 7 significant figures
- (d) 6 significant figures
- (e) 3 significant figures
- (f) 3 significant figures
- (g) 3 significant figures
- (h) 4 significant figures