

1.2.2.1: Practice with Significant Figures

Exercise 1.2.2.1.1

Tell the number of significant figures in each measurement.

- (a) 5060 L
- (b) 340 g
- (c) 3 cm
- (d) 30.04 mg
- (e) 0.00440 kg
- (f) 640.0 mL

Answer

- (a) 3
- (b) 2
- (c) 1
- (d) 4
- (e) 3
- (f) 4

Exercise 1.2.2.1.1

Round each number to two significant digits.

- (a) 4.825
- (b) 0.0568
- (c) 5624.8

Answer

- (a) 4.8
- (b) 0.057
- (c) 5600

Round each number to the tens place.

- (d) 118.8
- (e) 49.3
- (f) 3582

Answer

- (d) 120
- (e) 50
- (f) 3580

Exercise 1.2.2.1.1

Provide the answer to each multiplication or division problem with correct significant digits.

- (a) 3.4×27.8
- (b) $6600/2.25$
- (c) 73.82×60.2

Answer

- (a) 95
- (b) 2900
- (c) 4440

Provide the answer to each addition or subtraction problem with correct significant digits.

- (d) $4560 + 12$
- (e) $11.27 - 5.881$
- (f) $44.26 + 5.74$

Answer

- (d) 4570
- (e) 5.39
- (f) 50.00

Provide the answer to each mixed operations problem with correct significant digits.

- (g) $22.82 + (2.21 \times 3.04)$
- (h) $(112.52 - 64.388) \times 0.23100$
- (i) $65.70 / (0.755 + 3.145)$

Answer

- (g) 29.54
- (h) 11.12
- (i) 16.85

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