

Name \_\_\_\_\_ Section \_\_\_\_\_

**EXERCISE 1 PROBLEMS/SOLUTIONS—PART**

1. Complete the following conversions using exact conversion factors (round your answers to 1 decimal place).

<u>S.I. Units</u>	<u>English System Units</u>
(a) 14 centimeters	<u>5.5</u> inches
(b) 29 meters	<u>95.1</u> feet
(c) 175 kilometers	<u>108.7</u> miles
(d) 42 liters	<u>44.4</u> quarts
(e) 57 grams	<u>2.0</u> ounces
(f) 65 kilograms	<u>143.3</u> pounds
(g) 37°C	<u>98.6</u> °F

2. Complete the following conversions using exact conversion factors (round your answers to 1 decimal place).

<u>English System Units</u>	<u>S.I. Units</u>
(a) 3 inches	<u>7.6</u> centimeters
(b) 4.3 feet	<u>1.3</u> meters
(c) 18 yards	<u>16.5</u> meters
(d) 73 miles	<u>117.5</u> kilometers
(e) 6.2 quarts	<u>5.9</u> liters
(f) 10 gallons	<u>37.9</u> liters
(g) 14 ounces	<u>396.9</u> grams
(h) 155 pounds	<u>70.4</u> kilograms
(i) 47°F	<u>80.3</u> °C

Name \_\_\_\_\_ Section \_\_\_\_\_

**EXERCISE 1 PROBLEMS/SOLUTIONS—PART II**

1. Complete the following conversions using exact conversion factors (round your answers to 1 decimal place).

<u>S.I. Units</u>	<u>English System Units</u>
(a) 72 centimeters	<u>28.5</u> inches
(b) 24 meters	<u>78.8</u> feet
(c) 1300 kilometers	<u>807.3</u> miles
(d) 4.5 liters	<u>4.8</u> quarts
(e) 144 grams	<u>5.0</u> ounces
(f) 228 kilograms	<u>502.7</u> pounds
(g) 12°C	<u>53.6</u> °F

2. Complete the following conversions using exact conversion factors (round your answers to 1 decimal place).

<u>English System Units</u>	<u>S.I. Units</u>
(a) 55 inches	<u>139.7</u> centimeters
(b) 1774 feet	<u>541.1</u> meters
(c) 220 yards	<u>201.1</u> meters
(d) 23,900 miles	<u>38,455.1</u> kilometers
(e) 24 quarts	<u>22.7</u> liters
(f) 300 gallons	<u>1135.5</u> liters
(g) 26 ounces	<u>737.1</u> grams
(h) 4500 pounds	<u>2043.0</u> kilograms
(i) 88°F	<u>31.1</u> °C