

<b>Converting Units of Measure</b> Measurement		<b>Student/Class Goal</b> Students will use measurement units to solve problems and convert between measurement systems.
<b>Outcome</b> <i>(lesson objective)</i> Given a unit of measurement, students will be able to convert it to other units of measurement and will be able to use it to solve contextual problems.		<b>Time Frame</b> 4 hours
<b>Standard</b> <i>Use Math to Solve Problems and Communicate</i>		<b>NRS EFL 6</b>
<b>Components of Performance (COPs)</b> Understand, interpret, and work with pictures, numbers, and symbolic information.	<b>Activity Addresses COPs</b> <i>(process)</i> Students will understand when to use each unit of measurement.	
Apply knowledge of mathematical concepts and procedures to figure out how to answer a question, solve a problem, make a prediction, or carry out a task that has a mathematical dimension.	Students will use problem solving skills to know what unit that their answer should be in.	
Define and select data to be used in solving the problem.	Students will the correct conversion factors to use when solving problems.	
Determine the degree of precision required by the situation.	Students round their answers to the nearest hundredth when appropriate.	
Solve problem using appropriate quantitative procedures and verify that the results are reasonable.	Students will label their answers with the appropriate unit and check over their work to verify their answer.	
Communicate results using a variety of mathematical representations, including graphs, charts, tables, and algebraic models.	Students will make a table to list all of the conversion factors they might need.	
<b>Activity Addresses Benchmarks</b> <i>(content)</i> M.6.12, M.6.13, M.6.14, M.6.27, M.6.34, M.6.35		
<b>Materials</b> Measurement Unit Worksheets <a href="http://www.homeschoolmath.net/worksheets/measuring.php">http://www.homeschoolmath.net/worksheets/measuring.php</a> Measurement Worksheets		
<b>Learner Prior Knowledge</b> <ul style="list-style-type: none"> <li>• Adding, Subtracting, Multiplying, and Dividing Integers, Decimals, and Fractions</li> <li>• Using measurement systems</li> <li>• Problem Solving Skills</li> </ul>		
<b>Instructional Activities</b> Step 1 Review different units of measure and when to use each one. Ask students which unit of measure you would use to find...: <ul style="list-style-type: none"> <li>• Length of a pencil?</li> <li>• Distance from home plate to 2<sup>nd</sup> base?</li> <li>• Distance between two cities?</li> <li>• Time it takes to write your name?</li> <li>• Time it takes to write a paragraph?</li> <li>• Time it takes to take GED test?</li> <li>• Time it takes to complete a college class?</li> <li>• You do not have to ask these exact questions as long as you are making sure that students know what unit of measure is appropriate for different situations.</li> </ul> Step 2 Review how to round decimals to different places. Also discuss the difference between exact and		

approximate values. For example, a fraction is an exact value and a rounded decimal is an approximate value.

### Step 3

Teach students basic conversion factors.

- Teach students how to convert between inches, feet, yards, and miles (Customary units).
- Teach students how to convert between millimeters, centimeters, decimeters, meters, decameters, and kilometers (Metric units).
- Teach students how to convert between customary units and metric units.
- Teach students how to convert between seconds, minutes, hours, and days.
- Teach students how to convert between pounds, ounces, cups, pints, quarts, and gallons.

### Step 4

In a group, or with a partner, students will practice converting between different units of measure.

### Step 5

As a class, use units of measure to solve contextual problems. Label answers with the appropriate unit of measure.

### Step 6

Have students work individually on solving word problems that involve units of measure.

### **Assessment/Evidence** *(based on outcome)*

Informal assessment by monitoring group/partner discussion and work. Formally check students' individual work for process and accuracy. Assign additional practice if necessary.

### **Teacher Reflection/Lesson Evaluation**

Not yet completed.

### **Next Steps**

## Common Weights and Measures

### Length

#### Metric System

1 millimeter =  $1/1,000$  meter

1 centimeter =  $1/100$  meter

1 decimeter =  $1/10$  meter

1 meter (basic unit of length)

1 dekameter = 10 meters

1 kilometer = 1,000 meters

#### American and British Units

1 inch =  $1/36$  yard =  $1/12$  foot

1 foot =  $1/3$  yard

1 yard (basic unit of length)

1 mile = 1,760 yards = 5,280 feet

#### Conversion Factors

1 centimeter = 0.39 inch

1 inch = 2.54 centimeters

1 meter = 39.37 inches

1 foot = 0.305 meter

1 meter = 3.28 feet

1 yard = 0.914 meter

1 meter = 1.094 yards

1 kilometer = 0.62 mile

1 mile = 1.609 kilometers

### Volume and Capacity (Liquid and Dry)

#### Metric System

1 milliliter =  $1/1,000$  liter

1 centiliter =  $1/100$  liter

1 deciliter =  $1/10$  liter

1 dekaliter = 10 liters

1 hectoliter = 100 liters

<b>Conversion Factors</b>
1 milliliter = 0.034 fluid ounce
1 fluid ounce = 29.6 milliliters
1 U.S. quart = 0.946 liter
1 liter = 1.06 U.S. quarts
1 U.S. gallon = 3.8 liters

# Measuring Worksheet 3

Convert the measuring units as indicated.

1a. 60 in = \_\_\_\_\_ ft

1b. 132 in = \_\_\_\_\_ ft

2a. 36 ft = \_\_\_\_\_ yd

2b. 24 ft = \_\_\_\_\_ yd

3a. 4 ft = \_\_\_\_\_ in

3b. 27 ft = \_\_\_\_\_ yd

4a. 2 yd = \_\_\_\_\_ ft

4b. 30 ft = \_\_\_\_\_ yd

5a. 5 yd = \_\_\_\_\_ ft

5b. 8 ft = \_\_\_\_\_ in

6a. 144 in = \_\_\_\_\_ ft

6b. 72 in = \_\_\_\_\_ ft

7a. 7 ft = \_\_\_\_\_ in

7b. 10 ft = \_\_\_\_\_ in

8a. 108 in = \_\_\_\_\_ ft

8b. 33 ft = \_\_\_\_\_ yd

9a. 3 ft = \_\_\_\_\_ in

9b. 6 yd = \_\_\_\_\_ ft

10a. 3 ft = \_\_\_\_\_ yd

10b. 21 ft = \_\_\_\_\_ yd

## Answer Key for Measuring Worksheet 3

**1a. 5 ft**

**1b. 11 ft**

**2a. 12 yd**

**2b. 8 yd**

**3a. 48 in**

**3b. 9 yd**

**4a. 6 ft**

**4b. 10 yd**

**5a. 15 ft**

**5b. 96 in**

**6a. 12 ft**

**6b. 6 ft**

**7a. 84 in**

**7b. 120 in**

**8a. 9 ft**

**8b. 11 yd**

**9a. 36 in**

**9b. 18 ft**

**10a. 1 yd**

**10b. 7 yd**

# Measuring Worksheet 4

Convert the measuring units as indicated.

1a. 10560 ft = \_\_\_\_\_ mi

1b. 21120 ft = \_\_\_\_\_ mi

2a. 8800 yd = \_\_\_\_\_ mi

2b. 5 mi = \_\_\_\_\_ ft

3a. 2 mi = \_\_\_\_\_ yd

3b. 5280 yd = \_\_\_\_\_ mi

4a. 4 mi = \_\_\_\_\_ yd

4b. 1 mi = \_\_\_\_\_ ft

5a. 1 mi = \_\_\_\_\_ yd

5b. 15840 ft = \_\_\_\_\_ mi

6a. 4 mi = \_\_\_\_\_ ft

6b. 4 mi = \_\_\_\_\_ ft

7a. 4 mi = \_\_\_\_\_ yd

7b. 3 mi = \_\_\_\_\_ yd

8a. 5 mi = \_\_\_\_\_ ft

8b. 8800 yd = \_\_\_\_\_ mi

9a. 4 mi = \_\_\_\_\_ ft

9b. 15840 ft = \_\_\_\_\_ mi

10a. 5 mi = \_\_\_\_\_ yd

10b. 7040 yd = \_\_\_\_\_ mi

# Answer Key for Measuring Worksheet 4

**1a. 2 mi**

**1b. 4 mi**

**2a. 5 mi**

**2b. 26400 ft**

**3a. 3520 yd**

**3b. 3 mi**

**4a. 7040 yd**

**4b. 5280 ft**

**5a. 1760 yd**

**5b. 3 mi**

**6a. 21120 ft**

**6b. 21120 ft**

**7a. 7040 yd**

**7b. 5280 yd**

**8a. 26400 ft**

**8b. 5 mi**

**9a. 21120 ft**

**9b. 3 mi**

**10a. 8800 yd**

**10b. 4 mi**



# Measuring Worksheet 9

Convert the measuring units as indicated.

1a. 4.875 mi = \_\_\_\_\_ yd

1b. 5940 yd = \_\_\_\_\_ mi

2a. 6600 yd = \_\_\_\_\_ mi

2b. 6820 yd = \_\_\_\_\_ mi

3a. 7920 ft = \_\_\_\_\_ mi

3b. 0.5 mi = \_\_\_\_\_ yd

4a. 21120 ft = \_\_\_\_\_ mi

4b. 3300 yd = \_\_\_\_\_ mi

5a. 3.75 mi = \_\_\_\_\_ ft

5b. 220 yd = \_\_\_\_\_ mi

6a. 5940 ft = \_\_\_\_\_ mi

6b. 8.625 mi = \_\_\_\_\_ ft

7a. 3.875 mi = \_\_\_\_\_ ft

7b. 40920 ft = \_\_\_\_\_ mi

8a. 4.125 mi = \_\_\_\_\_ yd

8b. 2.875 mi = \_\_\_\_\_ yd

9a. 2.125 mi = \_\_\_\_\_ yd

9b. 4.625 mi = \_\_\_\_\_ yd

10a. 8800 yd = \_\_\_\_\_ mi

10b. 4.25 mi = \_\_\_\_\_ yd

## Answer Key for Measuring Worksheet 9

**1a. 8580 yd**

**1b. 3.375 mi**

**2a. 3.75 mi**

**2b. 3.875 mi**

**3a. 1.5 mi**

**3b. 880 yd**

**4a. 4 mi**

**4b. 1.875 mi**

**5a. 19800 ft**

**5b. 0.125 mi**

**6a. 1.125 mi**

**6b. 45540 ft**

**7a. 20460 ft**

**7b. 7.75 mi**

**8a. 7260 yd**

**8b. 5060 yd**

**9a. 3740 yd**

**9b. 8140 yd**

**10a. 5 mi**

**10b. 7480 yd**

# Measuring Worksheet 5

Convert the measuring units as indicated.

1a. 5 pt = \_\_\_\_\_ C

1b. 5 gal = \_\_\_\_\_ qt

2a. 6 gal = \_\_\_\_\_ qt

2b. 32 qt = \_\_\_\_\_ gal

3a. 8 oz = \_\_\_\_\_ C

3b. 16 C = \_\_\_\_\_ pt

4a. 6 C = \_\_\_\_\_ pt

4b. 6 C = \_\_\_\_\_ oz

5a. 8 qt = \_\_\_\_\_ gal

5b. 7 gal = \_\_\_\_\_ qt

6a. 12 qt = \_\_\_\_\_ gal

6b. 6 pt = \_\_\_\_\_ C

7a. 3 C = \_\_\_\_\_ oz

7b. 8 C = \_\_\_\_\_ oz

8a. 5 C = \_\_\_\_\_ oz

8b. 14 C = \_\_\_\_\_ pt

9a. 1 pt = \_\_\_\_\_ C

9b. 16 oz = \_\_\_\_\_ C

10a. 4 C = \_\_\_\_\_ pt

10b. 32 oz = \_\_\_\_\_ C

## Answer Key for Measuring Worksheet 5

**1a. 10 C**

**1b. 20 qt**

**2a. 24 qt**

**2b. 8 gal**

**3a. 1 C**

**3b. 8 pt**

**4a. 3 pt**

**4b. 48 oz**

**5a. 2 gal**

**5b. 28 qt**

**6a. 3 gal**

**6b. 12 C**

**7a. 24 oz**

**7b. 64 oz**

**8a. 40 oz**

**8b. 7 pt**

**9a. 2 C**

**9b. 2 C**

**10a. 2 pt**

**10b. 4 C**

# Measuring Worksheet 10

Convert the measuring units as indicated.

1a. 500 cm = \_\_\_\_\_ m

1b. 10 km = \_\_\_\_\_ m

2a. 800 cm = \_\_\_\_\_ m

2b. 3000 m = \_\_\_\_\_ km

3a. 9 cm = \_\_\_\_\_ mm

3b. 6 cm = \_\_\_\_\_ mm

4a. 8 km = \_\_\_\_\_ m

4b. 4000 m = \_\_\_\_\_ km

5a. 7000 m = \_\_\_\_\_ km

5b. 1000 cm = \_\_\_\_\_ m

6a. 80 mm = \_\_\_\_\_ cm

6b. 5000 m = \_\_\_\_\_ km

7a. 1 m = \_\_\_\_\_ cm

7b. 10 cm = \_\_\_\_\_ mm

8a. 2 cm = \_\_\_\_\_ mm

8b. 2000 m = \_\_\_\_\_ km

9a. 300 cm = \_\_\_\_\_ m

9b. 200 cm = \_\_\_\_\_ m

10a. 900 cm = \_\_\_\_\_ m

10b. 30 mm = \_\_\_\_\_ cm

# Answer Key for Measuring Worksheet 10

- |                   |                    |
|-------------------|--------------------|
| <b>1a.</b> 5 m    | <b>1b.</b> 10000 m |
| <b>2a.</b> 8 m    | <b>2b.</b> 3 km    |
| <b>3a.</b> 90 mm  | <b>3b.</b> 60 mm   |
| <b>4a.</b> 8000 m | <b>4b.</b> 4 km    |
| <b>5a.</b> 7 km   | <b>5b.</b> 10 m    |
| <b>6a.</b> 8 cm   | <b>6b.</b> 5 km    |
| <b>7a.</b> 100 cm | <b>7b.</b> 100 mm  |
| <b>8a.</b> 20 mm  | <b>8b.</b> 2 km    |
| <b>9a.</b> 3 m    | <b>9b.</b> 2 m     |
| <b>10a.</b> 9 m   | <b>10b.</b> 3 cm   |

# Measuring Worksheet 11

Convert the measuring units as indicated.

1a. 1877 m = \_\_\_\_\_ km

1b. 1333 m = \_\_\_\_\_ km

2a. 920 m = \_\_\_\_\_ km

2b. 139 m = \_\_\_\_\_ km

3a. 8236 m = \_\_\_\_\_ km

3b. 957 cm = \_\_\_\_\_ m

4a. 342 mm = \_\_\_\_\_ cm

4b. 400 cm = \_\_\_\_\_ m

5a. 827 cm = \_\_\_\_\_ m

5b. 9.91 m = \_\_\_\_\_ cm

6a. 8.509 km = \_\_\_\_\_ m

6b. 253 cm = \_\_\_\_\_ m

7a. 2.98 m = \_\_\_\_\_ cm

7b. 720 mm = \_\_\_\_\_ cm

8a. 8.036 km = \_\_\_\_\_ m

8b. 594 mm = \_\_\_\_\_ cm

9a. 0.245 km = \_\_\_\_\_ m

9b. 9.46 m = \_\_\_\_\_ cm

10a. 1.22 m = \_\_\_\_\_ cm

10b. 7.75 m = \_\_\_\_\_ cm

# Answer Key for Measuring Worksheet 11

**1a. 1.877 km**

**1b. 1.333 km**

**2a. 0.92 km**

**2b. 0.139 km**

**3a. 8.236 km**

**3b. 9.57 m**

**4a. 34.2 cm**

**4b. 4 m**

**5a. 8.27 m**

**5b. 991 cm**

**6a. 8509 m**

**6b. 2.53 m**

**7a. 298 cm**

**7b. 72 cm**

**8a. 8036 m**

**8b. 59.4 cm**

**9a. 245 m**

**9b. 946 cm**

**10a. 122 cm**

**10b. 775 cm**



# Measuring Worksheet 12

Convert the measuring units as indicated.

1a. 2000 g = \_\_\_\_\_ kg

1b. 9 L = \_\_\_\_\_ ml

2a. 1000 g = \_\_\_\_\_ kg

2b. 8000 g = \_\_\_\_\_ kg

3a. 10 L = \_\_\_\_\_ ml

3b. 6000 ml = \_\_\_\_\_ L

4a. 4 L = \_\_\_\_\_ ml

4b. 4 kg = \_\_\_\_\_ g

5a. 10 kg = \_\_\_\_\_ g

5b. 1 L = \_\_\_\_\_ ml

6a. 5000 ml = \_\_\_\_\_ L

6b. 6000 g = \_\_\_\_\_ kg

7a. 3 kg = \_\_\_\_\_ g

7b. 7 kg = \_\_\_\_\_ g

8a. 3000 ml = \_\_\_\_\_ L

8b. 9000 g = \_\_\_\_\_ kg

9a. 2000 ml = \_\_\_\_\_ L

9b. 5 kg = \_\_\_\_\_ g

10a. 7000 ml = \_\_\_\_\_ L

10b. 8000 ml = \_\_\_\_\_ L

# Answer Key for Measuring Worksheet 12

**1a. 2 kg**

**1b. 9000 ml**

**2a. 1 kg**

**2b. 8 kg**

**3a. 10000 ml**

**3b. 6 L**

**4a. 4000 ml**

**4b. 4000 g**

**5a. 10000 g**

**5b. 1000 ml**

**6a. 5 L**

**6b. 6 kg**

**7a. 3000 g**

**7b. 7000 g**

**8a. 3 L**

**8b. 9 kg**

**9a. 2 L**

**9b. 5000 g**

**10a. 7 L**

**10b. 8 L**

# Measuring Worksheet 13

Convert the measuring units as indicated.

1a. 0.225 kg = \_\_\_\_\_ g

1b. 5.879 kg = \_\_\_\_\_ g

2a. 8.201 kg = \_\_\_\_\_ g

2b. 9.059 L = \_\_\_\_\_ ml

3a. 8.798 kg = \_\_\_\_\_ g

3b. 5600 g = \_\_\_\_\_ kg

4a. 0.21 L = \_\_\_\_\_ ml

4b. 8.173 L = \_\_\_\_\_ ml

5a. 404 ml = \_\_\_\_\_ L

5b. 9.704 L = \_\_\_\_\_ ml

6a. 4649 ml = \_\_\_\_\_ L

6b. 118 g = \_\_\_\_\_ kg

7a. 4395 g = \_\_\_\_\_ kg

7b. 9748 ml = \_\_\_\_\_ L

8a. 8849 g = \_\_\_\_\_ kg

8b. 5913 g = \_\_\_\_\_ kg

9a. 1.104 kg = \_\_\_\_\_ g

9b. 6428 g = \_\_\_\_\_ kg

10a. 7540 g = \_\_\_\_\_ kg

10b. 9924 g = \_\_\_\_\_ kg

## Answer Key for Measuring Worksheet 13

**1a. 225 g**                      **1b. 5879 g**

**2a. 8201 g**                      **2b. 9059 ml**

**3a. 8798 g**                      **3b. 5.6 kg**

**4a. 210 ml**                      **4b. 8173 ml**

**5a. 0.404 L**                      **5b. 9704 ml**

**6a. 4.649 L**                      **6b. 0.118 kg**

**7a. 4.395 kg**                      **7b. 9.748 L**

**8a. 8.849 kg**                      **8b. 5.913 kg**

**9a. 1104 g**                      **9b. 6.428 kg**

**10a. 7.54 kg**                      **10b. 9.924 kg**

# Measuring Worksheet 15

Convert the measuring units as indicated.

1a. 2.25 gal = \_\_\_\_\_ qt

1b. 52140 ft = \_\_\_\_\_ mi

1c. 1.336 gal = \_\_\_\_\_ oz

2a. 4.453 km = \_\_\_\_\_ m

2b. 24 oz = \_\_\_\_\_ qt

2c. 5 C = \_\_\_\_\_ oz

3a. 103 in = \_\_\_\_\_ ft

3b. 3 pt = \_\_\_\_\_ qt

3c. 72 oz = \_\_\_\_\_ qt

4a. 42 oz = \_\_\_\_\_ gal

4b. 3.5 qt = \_\_\_\_\_ C

4c. 5.8 T = \_\_\_\_\_ lb

5a. 1.3 T = \_\_\_\_\_ lb

5b. 5.875 C = \_\_\_\_\_ oz

5c. 2.25 lb = \_\_\_\_\_ oz

6a. 5078 m = \_\_\_\_\_ km

6b. 10300 lb = \_\_\_\_\_ T

6c. 0.875 qt = \_\_\_\_\_ oz

7a. 12 C = \_\_\_\_\_ qt

7b. 57 ft = \_\_\_\_\_ yd

7c. 7 pt = \_\_\_\_\_ qt

8a. 36300 ft = \_\_\_\_\_ mi

8b. 33 ft = \_\_\_\_\_ yd

8c. 8691 m = \_\_\_\_\_ km

9a. 3 gal = \_\_\_\_\_ qt

9b. 4.75 gal = \_\_\_\_\_ qt

9c. 3.625 C = \_\_\_\_\_ oz

10a. 750 cm = \_\_\_\_\_ m

10b. 312 oz = \_\_\_\_\_ gal

10c. 1.073 L = \_\_\_\_\_ ml

11a. 21.667 yd = \_\_\_\_\_ ft

11b. 2.125 mi = \_\_\_\_\_ yd

11c. 4180 yd = \_\_\_\_\_ mi

12a. 9.304 L = \_\_\_\_\_

12b. 6.625 C = \_\_\_\_\_ oz

12c. 14 in = \_\_\_\_\_ ft

ml

13a. 4 C = \_\_\_\_\_ pt

13b. 0.25 mi = \_\_\_\_\_  
yd

13c. 36 oz = \_\_\_\_\_ qt

14a. 49 oz = \_\_\_\_\_ C

14b. 12 C = \_\_\_\_\_ pt

14c. 53 in = \_\_\_\_\_ ft

15a. 2 C = \_\_\_\_\_ oz

15b. 5.375 mi = \_\_\_\_\_  
ft

15c. 8.17 km = \_\_\_\_\_  
m

16a. 4.5 T = \_\_\_\_\_ lb

16b. 4 pt = \_\_\_\_\_ qt

16c. 2.5 qt = \_\_\_\_\_  
pt

17a. 15 yd = \_\_\_\_\_ ft

17b. 48 oz = \_\_\_\_\_ C

17c. 6.22 m = \_\_\_\_\_  
cm

18a. 4.625 lb = \_\_\_\_\_  
oz

18b. 6.35 km = \_\_\_\_\_  
m

18c. 2.5 gal = \_\_\_\_\_  
qt

19a. 0.76 m = \_\_\_\_\_  
cm

19b. 201 oz = \_\_\_\_\_ gal

19c. 11000 lb = \_\_\_\_\_  
T

20a. 7.125 C = \_\_\_\_\_ oz

20b. 53.2 cm = \_\_\_\_\_  
mm

20c. 3.099 L = \_\_\_\_\_  
ml

## Answer Key for Measuring Worksheet 15

- |                      |                       |                      |
|----------------------|-----------------------|----------------------|
| <b>1a.</b> 9 qt      | <b>1b.</b> 9.875 mi   | <b>1c.</b> 171 oz    |
| <b>2a.</b> 4453 m    | <b>2b.</b> 0.75 qt    | <b>2c.</b> 40 oz     |
| <b>3a.</b> 8.583 ft  | <b>3b.</b> 1.5 qt     | <b>3c.</b> 2.25 qt   |
| <b>4a.</b> 0.328 gal | <b>4b.</b> 14 C       | <b>4c.</b> 11600 lb  |
| <b>5a.</b> 2600 lb   | <b>5b.</b> 47 oz      | <b>5c.</b> 36 oz     |
| <b>6a.</b> 5.078 km  | <b>6b.</b> 5.15 T     | <b>6c.</b> 28 oz     |
| <b>7a.</b> 3 qt      | <b>7b.</b> 19 yd      | <b>7c.</b> 3.5 qt    |
| <b>8a.</b> 6.875 mi  | <b>8b.</b> 11 yd      | <b>8c.</b> 8.691 km  |
| <b>9a.</b> 12 qt     | <b>9b.</b> 19 qt      | <b>9c.</b> 29 oz     |
| <b>10a.</b> 7.5 m    | <b>10b.</b> 2.438 gal | <b>10c.</b> 1073 ml  |
| <b>11a.</b> 65 ft    | <b>11b.</b> 3740 yd   | <b>11c.</b> 2.375 mi |
| <b>12a.</b> 9304 ml  | <b>12b.</b> 53 oz     | <b>12c.</b> 1.167 ft |
| <b>13a.</b> 2 pt     | <b>13b.</b> 440 yd    | <b>13c.</b> 1.125 qt |
| <b>14a.</b> 6.125 C  | <b>14b.</b> 6 pt      | <b>14c.</b> 4.417 ft |
| <b>15a.</b> 16 oz    | <b>15b.</b> 28380 ft  | <b>15c.</b> 8170 m   |
| <b>16a.</b> 9000 lb  | <b>16b.</b> 2 qt      | <b>16c.</b> 5 pt     |
| <b>17a.</b> 45 ft    | <b>17b.</b> 6 C       | <b>17c.</b> 622 cm   |
| <b>18a.</b> 74 oz    | <b>18b.</b> 6350 m    | <b>18c.</b> 10 qt    |
| <b>19a.</b> 76 cm    | <b>19b.</b> 1.57 gal  | <b>19c.</b> 5.5 T    |
| <b>20a.</b> 57 oz    | <b>20b.</b> 532 mm    | <b>20c.</b> 3099 ml  |