## Solving Proportions in Real-Life Situations

### Solving Problems using Proportional Reasoning

For each problem, set up a proportion. Include the units for each ratio. Then solve for the missing value and label your answer with appropriate units. Round answers to the nearest tenth.

<table>
<thead>
<tr>
<th>Problem</th>
<th>Proportion with Units</th>
<th>Work + Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Sam raked 3 bags of leaves in 16 minutes. If he continues to work at the same rate, about how long will it take him to rake 5 bags?</td>
<td>( \frac{3 \text{ bags}}{16 \text{ min}} = \frac{x \text{ bags}}{x \text{ min}} )</td>
<td>x = 26.7 min</td>
</tr>
<tr>
<td>2. Amy earned $25 after babysitting for 3 hours. If she always charges the same rate, how much will she make after working for 7 hours?</td>
<td>( \frac{25 \text{ dollars}}{3 \text{ hours}} = \frac{x \text{ dollars}}{7 \text{ hours}} )</td>
<td>x = $58.33</td>
</tr>
<tr>
<td>3. A 2 month membership to the gym costs $62. Jim would like to be a member for 8 months. What is the total amount he will pay for 8 months?</td>
<td>( \frac{62 \text{ dollars}}{2 \text{ months}} = \frac{8 \text{ dollars}}{x \text{ months}} )</td>
<td>x = $500</td>
</tr>
<tr>
<td>4. Bobby drove 10 miles, and his car used up 5 gallons of gas. How many miles can he drive with 16 gallons of gas?</td>
<td>( \frac{10 \text{ miles}}{5 \text{ gallons}} = \frac{x \text{ miles}}{16 \text{ gallons}} )</td>
<td>x = 352 miles</td>
</tr>
<tr>
<td>5. Mary ran 2 miles in about 23 minutes. If she continued at the same pace, how long will it take her to run 10 miles?</td>
<td>( \frac{2 \text{ miles}}{23 \text{ minutes}} = \frac{10 \text{ miles}}{x \text{ minutes}} )</td>
<td>x = 115 minutes</td>
</tr>
</tbody>
</table>
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<td>1.</td>
<td>Sam raked 3 bags of leaves in 16 minutes. If he continues to work at the same rate, about how long will it take him to rake 5 bags?</td>
<td>$\frac{3}{16} = \frac{x}{5}$</td>
<td></td>
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<tr>
<td>2.</td>
<td>Amy earned $25 after babysitting for 3 hours. If she always charges the same rate, how much will she make after working for 7 hours?</td>
<td>$\frac{25}{3} = \frac{y}{7}$</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>A 2-month membership to the gym costs $125. Jim would like to be a member for 8 months. What is the total amount he will pay for 8 months?</td>
<td>$\frac{125}{2} = \frac{z}{8}$</td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>Bobby drove 110 miles, and his car used up 5 gallons of gas. How many miles can he drive with 16 gallons of gas?</td>
<td>$\frac{110}{5} = \frac{a}{16}$</td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>Mary ran 2 miles in about 23 minutes. If she continued at the same pace, how long will it take her to run 10 miles?</td>
<td>$\frac{2}{23} = \frac{b}{10}$</td>
<td></td>
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\] | \[
3x = 5 \cdot 16 \\
x = 26.7 \\
26.7 \text{ min}
\] |
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\frac{2}{23} = \frac{10}{x}
\] | \[
115 \text{ min}
\] |
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