5.3 Percents and Fractions

Learning Objectives:
1. Write a percent as a fraction or mixed number.
2. Write a fraction or mixed number as a percent.
3. Convert percents, decimals, and fractions to equivalent forms.

1. Conversions between Percents and Fractions
   
   1. **Percent to Fraction**—replace % with \( \frac{1}{100} \), then multiply and write the fraction in simplest form.

   **Example 1.** Write each percent as a fraction or mixed number in simplest form.

   1. 18.9%

   2. 12\(\frac{3}{8}\)%

2. **Write a Fraction or Mixed Number as a Percent**

   1. **Fraction to Percent**—multiply by 100%
   2. **Mixed Number to Percent**—converts mixed number to improper number and then multiply by 100%

   **Example 2.** Write the fraction or mixed number as a percent.

   1. \(\frac{7}{12}\)

   2. \(1\frac{2}{7}\)
### Example 3. Complete the table.

<table>
<thead>
<tr>
<th>Percent</th>
<th>Fraction</th>
<th>Decimal</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>20%</td>
<td>3/20</td>
</tr>
<tr>
<td>2.</td>
<td>27%</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td>0.55</td>
</tr>
</tbody>
</table>