Objective: SWBAT solve real world problems by using operations with fractions and mixed numbers including the use of renaming when subtracting.

Circle the correct term or number to complete each sentence:

1) The (numerator, denominator) is the "bottom" part of a fraction.

2) To add fractions, each fraction must have the same (numerators, denominators).

3) The reciprocal of \( \frac{1}{3} \) is (-3, 3).

4) To divide by a fraction, (multiply, divide) by its reciprocal.

5) The least common denominator of \( \frac{1}{5} \) and \( \frac{1}{10} \) is (10, 50).

6) To multiply fractions multiply in the following direction (\( \frac{a}{b} \times \frac{c}{d} \))

7) \( \left( \frac{2}{5}, -2, \frac{2}{5}, -5 \right) \) is not equivalent to the others.

8) \( \frac{8}{3} \) is correctly simplified as \( \left( \frac{2}{3}, \frac{7}{3} \right) \)
Station 1
Adding and Subtracting mixed numbers

Add the following:

1) \( \frac{1}{4} + \frac{1}{4} = \)

2) \( \frac{2}{5} + \frac{7}{4} = \)

3) \( \frac{2}{5} + \frac{4}{5} = \)

4) \( \frac{10}{2} + \frac{12}{6} = \)

Subtract the following

1) \( \frac{4}{5} - \frac{1}{5} = \)

2) \( \frac{2}{3} - \frac{2}{4} = \)

3) \( \frac{3}{4} - \frac{2}{5} = \)

4) \( \frac{1}{5} - \frac{2}{3} = \)
Station 2
Multiplying and Dividing with mixed numbers

Turn mixed number into improper fraction, multiply or divide fractions, simplify.

Turn the following mixed numbers into improper fractions:

1) \( \frac{3}{7} \) = ___  
2) \( \frac{5}{8} \) = ___  
3) \( -\frac{1}{9} \) = ___  
4) \( -\frac{6}{13} \) = ___

Multiply or divide the following:

5) \( \frac{3}{4} \times \frac{3}{11} \) = ___  
6) \( \frac{2}{7} \div \frac{4}{7} \) = ___

7) \( \left( \frac{2}{3} \right) \left( \frac{1}{11} \right) \) = ___  
8) \( \frac{1}{2} \div \frac{4}{9} \) = ___

9) \( \frac{4}{5} \left( \frac{9}{6} \right) \) = ___  
10) \( \frac{3}{4} \div \frac{1}{2} \) = ___
<table>
<thead>
<tr>
<th>Fraction to Decimal</th>
<th>Percent to Decimal</th>
<th>Percent to Fraction</th>
</tr>
</thead>
<tbody>
<tr>
<td>- divide numerator by denominator</td>
<td>- move decimal two places to the LEFT</td>
<td>- put percent over 100 and simplify</td>
</tr>
<tr>
<td>Decimal to Fraction</td>
<td>Decimal to Percent</td>
<td>Fraction to Percent</td>
</tr>
<tr>
<td>- put number over place value, then simplify</td>
<td>- move decimal two places to the RIGHT</td>
<td>- turn fraction into a decimal, then move the decimal two places</td>
</tr>
</tbody>
</table>

Fill in the missing squares

<table>
<thead>
<tr>
<th>Fraction</th>
<th>Decimal</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>( \frac{9}{25} )</td>
<td>0.06</td>
<td>78%</td>
</tr>
<tr>
<td>( \frac{2}{9} )</td>
<td>0.54</td>
<td>0.4%</td>
</tr>
</tbody>
</table>
1) The weight of an object on Mars is about \( \frac{2}{5} \) its weight on Earth. How much would an \( \frac{80}{2} \) pound dog weigh on Mars?

2) Blake is finding \( \frac{4}{5} \div \frac{6}{7} \). Find his mistake and correct it.

3) The length of Kasey's garden is \( \frac{5}{8} \) feet. Find the width of Kasey's garden if it is \( \frac{7}{8} \) feet shorter than the length.

4) Karen wakes up at 6:00 AM. It takes her \( 1\frac{2}{3} \) hours to shower, get dressed, brush her teeth, make her bed and comb her hair. It takes her \( \frac{1}{6} \) hour to eat breakfast. At what time will she be ready for school?