Lesson 12 Problem Set 4.3

Name ___________________________ Date __________________

Use the RDW process to solve the following problems.

1. The table shows the cost of party favors. Each party guest receives a bag with 1 balloon, 1 lollipop, and 1 bracelet. What is the total cost for 9 guests?

<table>
<thead>
<tr>
<th>Item</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 balloon</td>
<td>26¢</td>
</tr>
<tr>
<td>1 lollipop</td>
<td>14¢</td>
</tr>
<tr>
<td>1 bracelet</td>
<td>33¢</td>
</tr>
</tbody>
</table>

\[ \frac{2}{13} \times \frac{9}{6574} \]

The total cost is $6.57 for all 9 guests.

2. The Turner family uses 548 liters of water per day. The Hill family uses 3 times as much water per day. How much water does the Hill family use per week?

\[ \frac{1}{548} \times \frac{3}{1644} \]

The Hill family uses 1,644 L of water per day.

3. Jayden has 347 marbles. Elvis has 4 times as many as Jayden. Presley has 799 fewer than Elvis. How many marbles does Presley have?

\[ \frac{12}{347} \times \frac{4}{1388} - \frac{12}{799} \]

Presley has 589 marbles.
4. 
   a. Write an equation that would allow someone to find the value of \( R \).

   \[
   \begin{array}{cccc}
   \hline
   & 1,167 & 1,167 & 1,167 \\
   \hline
   \end{array}
   \]

   \[
   \begin{array}{c}
   \hline
   \end{array}
   \]

   \[
   R = 3,264
   \]

   \[
   (3 \times 1,167) - 239 = R
   \]

   b. Write your own word problem to correspond to the tape diagram, and then solve.

   **Sample:** John bought 3 boxes of crayons with 1,167 crayons in each box. Rennee had 237 less crayons than John. How many crayons does Rennee have?

   \[
   \begin{array}{c}
   \hline
   \end{array}
   \]

   \[
   \begin{array}{c}
   \hline
   \end{array}
   \]

   \[
   \frac{1,167 \times 3}{3,501} = \frac{4,901}{3,264}
   \]

   Rennee has 3,264 crayons.