Use the RDW process to solve the problems below. Use a letter to represent the unknown in each problem. When you are finished, share your solutions with a partner. Discuss and compare your strategies with your partner’s strategies.

1. Monica measures 91 milliliters of water into 9 tiny beakers. She measures an equal amount of water into the first 8 beakers. She pours the remaining water into the ninth beaker. It measures 19 milliliters. How many milliliters of water are in each of the first 8 beakers?

\[
\begin{align*}
\text{There are } & 9 \text{ mL of water in each of the first 8 beakers.} \\
72 \div 8 = e & \\
\text{e} = 9
\end{align*}
\]

2. Matthew and his dad put up 8 six-foot lengths of fence on Monday and 9 six-foot lengths on Tuesday. What is the total length of the fence?

\[
\begin{align*}
\text{Monday} & \\
6 & 6 & 6 & 6 & 6 & 6 & 6 & 6 \times 6 = 48 \\
\text{Tuesday} & \\
6 & 6 & 6 & 6 & 6 & 6 & 6 & 6 \times 6 = 54
\end{align*}
\]

\[
\begin{align*}
L & = 48 + 54 \\
L & = 102
\end{align*}
\]

3. The total weight of Laura’s new pencils is 112 grams. One pencil rolls off the scale. Now, the scale reads 105 grams. What is the total weight of 7 new pencils?

\[
\begin{align*}
\text{The total weight of 7 new pencils is } & 49 \text{ grams.} \\
112 & - 105 \\
7 & \text{grams}
\end{align*}
\]
4. Mrs. Ford’s math class starts at 8:15. They do 3 fluency activities that each last 4 minutes. Just when they finish all of the fluency, the fire alarm goes off. When they return to the room after the drill, it is 8:46. How many minutes did the fire drill last?

\[ 3 \times 4 = 12 \]

\[ 8:00 \quad 8:15 \quad 8:27 \quad ? \quad 8:46 \]

\[ d = 46 - 27 \]

\[ d = 19 \]

The fire drill lasts for 19 minutes.

5. On Saturday, the baker bought a total of 150 pounds of flour in five-pound bags. By Tuesday, he had 115 pounds of flour left. How many five-pound bags of flour did the baker use?

\[ 150 \]

\[ 115 \]

\[ 35 \]

\[ b = 35 \div 5 \]

\[ b = 7 \]

The baker used 7 five-pound bags of flour.

6. Fred cut an 84-centimeter rope into 2 parts and gave his sister 1 part. Fred’s part is 56 centimeters long. His sister cut her rope into 4 equal pieces. How long is 1 of her sister’s pieces of rope?

\[ 84 \]

\[ 56 \]

\[ 28 \]

\[ P = 28 \div 4 \]

\[ P = 7 \]

One piece of Fred’s sister’s rope is 7 centimeters long.