Directions: Model each problem using a tape diagram. Solve using numbers and words.

1. In one year the factory used 11,650 m of cotton, 4,950 fewer meters of silk than cotton, and 3,500 fewer meters of wool than silk. How many meters in all were used of the three fabrics?

   Cotton 11,650
   Silk 4,950
   Wool 3,500

   \[
   \begin{align*}
   11,650 & \quad -4,950 \quad = 6,700 (	ext{silk}) \\
   6,700 & \quad +3,200 \quad = 9,900 \quad \text{(wool)} \\
   \hline
   11,650 & \quad +3,200 \quad = 21,550 \quad \text{m of fabric was used.}
   \end{align*}
   \]

2. The shop sold 12,789 chocolate and 9,324 cookie dough cones. They sold 1,078 more peanut butter cones than cookie dough cones and 999 more vanilla cones than chocolate cones. What was the total number of ice cream cones sold?

   Chocolate 12,789
   Cookie Dough 9,324
   Peanut Butter 9,324 1,078
   Vanilla 12,789 999

   \[
   \begin{align*}
   12,789 & \quad +1,078 \quad = 13,867 \quad \text{(peanut butter)} \\
   13,867 & \quad +999 \quad = 14,866 \quad \text{(vanilla)} \\
   \hline
   12,789 & \quad +9,324 \quad = 22,113 \\
   12,789 & \quad +9,324 \quad = 22,113 \\
   12,789 & \quad +9,324 \quad = 22,113 \\
   \end{align*}
   \]

   They sold 46,303 ice cream cones.

3. In the first week of June, a restaurant sold 10,345 omelets. The second week, they sold 1,096 fewer omelets than the first week. The third week, they sold 2 thousand more than the first week. The fourth week they sold 2 thousand fewer than the first week. How many omelets did they sell in all in June?

   Week 1 10,345
   Week 2 9,249
   Week 3 12,345
   Week 4 8,345

   \[
   \begin{align*}
   10,345 & \quad -1,096 \quad = 9,249 \quad \text{(week 2)} \\
   10,345 & \quad +2,000 \quad = 12,345 \quad \text{(week 3)} \\
   10,345 & \quad +2,000 \quad = 8,345 \quad \text{(week 4)} \\
   \hline
   40,284 \quad \text{omelets in June.}
   \end{align*}
   \]