Focus Area ▶ Topic F: Addition and Subtraction Word Problems
Multi-Step Problems with Tape Diagrams
As students continue practicing with tape diagrams, their ability to reason and problem solve will increase as will their ability to work with more complex problems.

Example Problem and Answer
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?

Starting with Tape Diagrams
Students will be given a tape diagram and asked to create and solve multi-step word problems that would fit it.

Example Problem and Answer
Using the diagram below, create your own word problem and solve for the missing variable.

Answer
Hal had 6,729 baseball cards. Jeff had 462 more cards than Hal. How many did they have altogether?

\[ 6,729 + 6,729 + 462 = y \]
\[ y = 13,920 \]

Can you think of another problem to match the tape diagram?