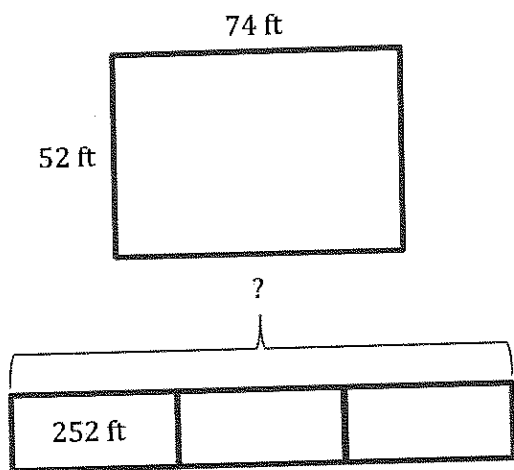


## G3-M7-Lesson 30

Andrew solves the following problem as shown below.

A basketball court measures 74 feet by 52 feet. Bill dribbles the basketball around the court sidelines 3 times. What is the total number of feet Bill dribbles the ball?



$$\begin{aligned} P &= 52 \text{ ft} + 74 \text{ ft} + 52 \text{ ft} + 74 \text{ ft} \\ &= 126 \text{ ft} + 126 \text{ ft} \\ &= 252 \text{ ft} \end{aligned}$$

$$\begin{aligned} &252 + 252 + 252 \\ &= 750 + 6 \\ &= 756 \end{aligned}$$

Bill dribbles the ball 756 feet.

1. What strategies did Andrew use to solve this problem?

*Andrew drew a picture of the basketball court and labeled the side lengths. Then he added to find the perimeter. Finally, he used a tape diagram to find the total of 3 perimeters.*

Analyzing my classmates' work improves my problem-solving skills because I am able to see different and sometimes more efficient ways of solving a problem.

2. What did Andrew do well?

*Andrew used all the steps in the RDW process. He used mental math for his calculations. He also drew and labeled a tape diagram to show his thinking for his second step.*

3. What are some suggestions that you would give Andrew to improve his work?

*Some suggestions would be to have Andrew use a letter to represent the unknown in the tape diagram and label all of the units in his addition sentence.*

4. What are some strategies you would like to try based on Andrew's work?

*I would like to practice thinking about numbers like  $252 + 252 + 252$  as  $(250 + 250 + 250) + (2 + 2 + 2)$ . That will help me use mental math strategies to add and not have to use the algorithm as much.*

Having classmates analyze my work is helpful because I am able to get ideas on how to improve it.