

# Homework & Practice 6-5

## Make Sense and Persevere

### Another Look!

A museum director would like to display butterflies and dragonflies in 5 cases with about the same number of insects in each case. How many insects should go in each case?

**Identify the hidden questions and choose a strategy to solve.**

- How many butterflies are there?
- How many insects are there?

**Understand how the quantities are related to solve the original question.**

There are 3 times as many butterflies as dragonflies.

$$3 \times 36 = 108 \text{ butterflies}$$

The sum of insects and butterflies is used to find the number of insects that should go in each of the 5 cases.

$$36 + 108 = 144 \text{ insects}$$

$$144 \div 5 = 28 \text{ R}4$$

28 insects should go in one display case and 29 insects should go in each of the other 4 cases.

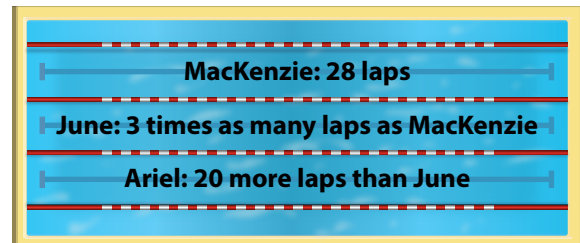


You can **make sense** of problems by finding the hidden questions.



### © MP.1 Make Sense and Persevere

The diagram shows how many laps three friends swim each week. How can you determine the number of miles Ariel swam?

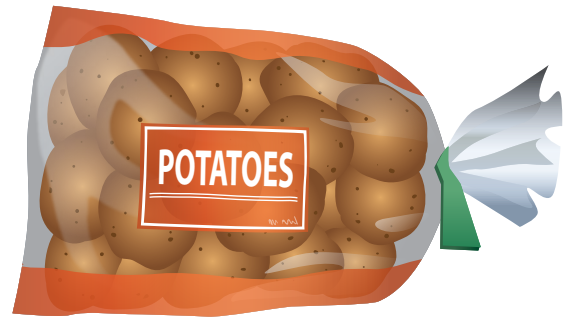


8 laps equal a mile

1. Write and solve the hidden question(s) you need to answer before you answer the original question.
2. Use your answers to the hidden question(s) and an equation to determine how many miles Ariel swam.

### Selling Potatoes

Ms. Sacksteder owns a grocery store. She buys 272 pounds of potatoes for \$99. She wants to sell them for twice as much. She makes 9 bags containing 10 pounds each and puts the rest in 5-pound bags. Her family will eat any of the leftover potatoes. Ms. Sacksteder wants to know how many 5-pound bags of potatoes she can sell.



Each 5-pound bag of potatoes sells for \$4.



3. **MP.1 Make Sense and Persevere** What hidden question do you need to answer first?

4. **MP.2 Reasoning** How does the answer to the hidden question relate to the original question?

5. **MP.4 Model with Math** How can you use an equation to represent and find how many 5-pound bags of potatoes Ms. Sacksteder can sell?

6. **MP.6 Be Precise** How much money will Ms. Sacksteder make for the 5-pound bags? Write and solve an equation to show you computed accurately.