Practice Video Tools Games

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.

- How many butterflies are there?

- How many insects are there?

Write and solve equations to solve the hidden questions and the main question.

Let b = the number of butterflies.
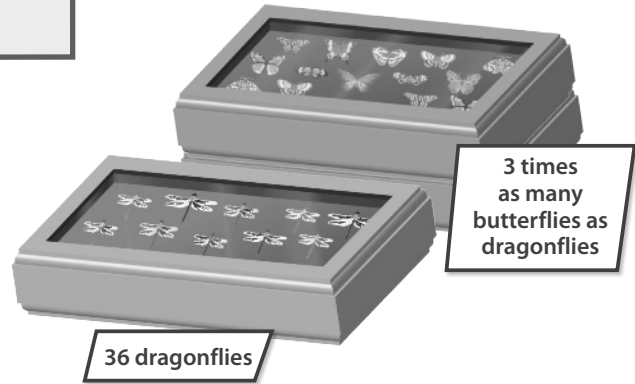
$b = 3 \times 36$, $b = 108$ butterflies.

Let i = the number of insects.

$i = 36 + 108$, $i = 144$ insects

Let c = the number of cases.

$c = 144 \div 5$, $c = 28$ R4

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

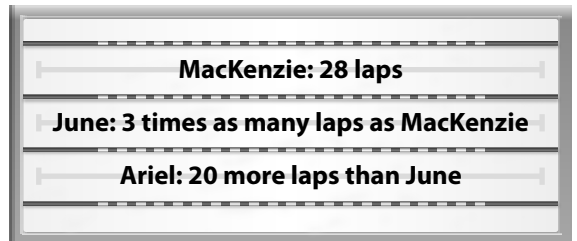3 times as many butterflies as dragonflies

36 dragonflies

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

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?

MacKenzie: 28 laps
June: 3 times as many laps as MacKenzie
Ariel: 20 more laps than June

8 laps equal a mile

1. Write the hidden question(s) you need to answer before you answer the original question. Use equations to solve.

2. Use your answers to the hidden question(s) and an equation to determine how many miles, m, Ariel swam.

Selling Potatoes

Ms. Sacksteader 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. Sacksteader wants to know how many 5-pound
bags of potatoes she can sell.
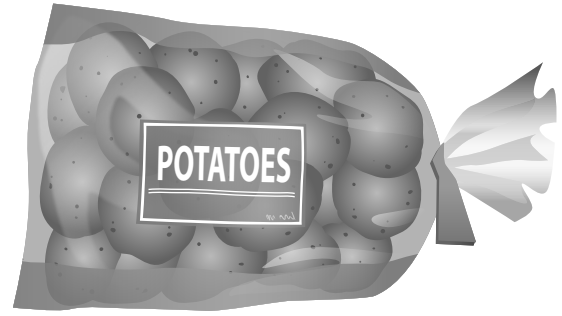
3. Make Sense and Persevere What hidden questions do
you need to answer first? Use equations to solve each.

MP.1.1

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

> Be sure to tell what each variable represents.

4. Model with Math How many 5-pound bags of potatoes
can Ms. Sacksteader sell? Use equations to solve. Explain
your answer. 4.0A.1.3, MP. 4.1

5. Be Precise How much money will Ms. Sacksteader make
for the 5-pound bags? Write and solve an equation to
show how to solve. 4.0A.1.2, MP.6.1