



Practice



Video



Tools



Games

Additional Practice 6-3

Solve Multi-Step Problems

Another Look!

There are 150 students in the band. The boys and girls are in separate rows. There are 6 students in each row. There are 12 rows of boys. How many rows of girls are there?

You have to answer the hidden questions before you can answer the question that is asked.



Step 1

Hidden Question: How many boys are in the band?

Let b = the number of boys.

$$12 \times 6 = b$$

$$b = 72$$

There are 72 boys in the band.

Step 2

Hidden Question: How many girls are in the band?

Let g = the number of girls.

$$150 - 72 = g$$

$$g = 78$$

There are 78 girls in the band.

Step 3

Original Question: How many rows of girls are in the band?

Let r = the number of rows of girls.

$$78 \div 6 = r$$

$$r = 13$$

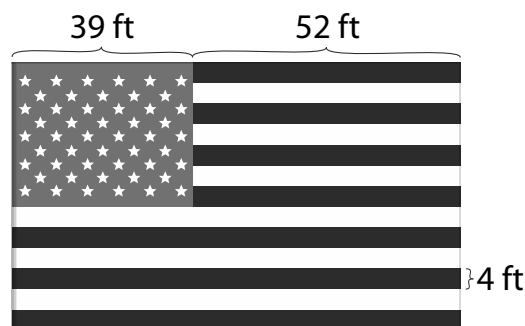
There are 13 rows of girls.

For 1–2, solve each multi-step problem. Write equations to show each step.

- Friday night, a pizza parlor sold 5 large pizzas and some medium pizzas. The pizza parlor made a total of \$291. How many medium pizzas were sold?



- What is the area of the giant American flag shown? All stripes are the same height.



For 3–4, use the table at the right.

3. Emma has \$100 to spend at the pet store. She needs to buy 1 bag of dog food and 2 chew toys. How many catnip toys can Emma buy? Write equations to show each step.



Barky's Pet Store	
Product	Cost
Bag of Dog Food	\$35
Bag of Cat Food	\$18
Chew Toy	\$12
Catnip Toy	\$9

4. **Vocabulary** Define *partial products*. What partial products can you use to find how much 6 bags of cat food will cost?

5. **Higher Order Thinking** Maurice and Trina both solve the problem at the right. Maurice adds first and then multiplies. Trina multiplies first and then adds. Who is correct? Use a property of operations to explain.

A large wind turbine can power 598 homes. A company had 4 turbines and then built 5 more. How many homes can the company power with its wind turbines?

Assessment Practice

6. The gym teacher has \$250 to spend on volleyball equipment. She buys 4 volleyball nets for \$28 each. Volleyballs cost \$7 each. How many volleyballs can she buy? Explain how to interpret the remainder.

Part A

Write and solve an equation that can be used to answer each hidden question.

4.OA.1.3

Part B

Write and solve an equation that can be used to answer the original question.

4.OA.1.3