Another Look!

There are 84 students in the band. The boys and girls are in separate rows. There are 6 students in each row. There are 8 rows of boys. How many rows of girls are there?

Step 1

**Hidden Question:** How many boys are in the band?

\[8 \times 6 = b\]

\[b = 48\]

There are 48 boys in the band.

Step 2

**Hidden Question:** How many girls are in the band?

\[84 - 48 = g\]

\[g = 36\]

There are 36 girls in the band.

Step 3

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

\[36 \div 6 = r\]

\[r = 6\]

There are 6 rows of girls.

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

1. 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?

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

\[
\text{Area} = 39 \times 52 = 2044 \text{ square feet}
\]
3. Emma has $100 to spend at the pet store. She needs to buy 1 bag of dog food and 2 chew toys. Will Emma have enough money left over to buy 3 times as many catnip toys as chew toys? Explain.

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 plans to add first and then multiply. Trina plans to multiply first and then add. Who is correct? Use a property of operations to justify your answer.

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?

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?

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

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