

## SECTION 3.4 Exploring Division

### EXPLORATION 3.15 Different Models of Division

1. Make up a story problem for  $15 \div 3$ . Assume that you are a young child who does not yet know division. Describe how you would determine the answer. You may use pictures to describe your solution path, but you are not required to.
2. Compare your stories with those of other members of your group. Just as we found that there are different models for addition, subtraction, and multiplication, there are different models for division.
  - a. Sort your stories into two or more groups. Explain the common characteristic(s) of the stories in each group.
  - b. Give a name to each of the groups and briefly justify that name.
  - c. After listening to the class discussion, name and briefly define each of the models for division.
3. Consider the problem  $92 \div 4$ . Make up a story problem for these numbers that fits each of your models. Still assuming that you don't know the formal idea of division, describe how you would determine the answer.