

**Problem Set**

1. You are getting ready for a family vacation. You decide to download as many movies as possible before leaving for the road trip. If each movie takes  $1\frac{2}{5}$  hours to download, and you downloaded for  $5\frac{1}{4}$  hours, how many movies did you download?
2. The area of a blackboard is  $1\frac{1}{3}$  square yards. A poster's area is  $\frac{8}{9}$  square yards. Find the unit rate and explain, in words, what the unit rate means in the context of this problem. Is there more than one unit rate that can be calculated? How do you know?
3. A toy jeep is  $12\frac{1}{2}$  inches long, while an actual jeep measures  $18\frac{3}{4}$  feet long. What is the value of the ratio of the length of the toy jeep to the length of the actual jeep? What does the ratio mean in this situation?
4. To make 5 dinner rolls,  $\frac{1}{3}$  cup of flour is used.
  - a. How much flour is needed to make one dinner roll?
  - b. How many cups of flour are needed to make 3 dozen dinner rolls?
  - c. How many rolls can you make with  $5\frac{2}{3}$  cups of flour?