Chapter 3 Project: Home Court Advantage

Compare Basketball Statistics

Beginning the Chapter Project

In Malcolm’s daydream, he is floating in the air on the way to a slam dunk. In reality, he is tossing pieces of paper into a wastebasket. He makes some shots, and he misses others.

Your project will be to record and compare baskets attempted and baskets made by the players on your own imaginary basketball team. You can shoot baskets with a real basketball on a real court, or you can toss pieces of paper into a wastebasket.

Activities

**Activity 1: Recording**

You’ll need five starters and two substitutes for your basketball team. Use the names of real players or make some up. If you use a ball of paper as a basketball, place your “foul line” about 10 ft from the trash can. Your first player should take 10 shots, your second player 9 shots, your third player 8 shots, and so on. Make a table to record the number of shots taken and the number of shots made by each player.

**Activity 2: Calculating**

Add a fourth column to your data table and write each player’s shooting record as a fraction. Then compare and order the fractions. Rank your players from best to worst at foul shooting.

**Activity 3: Comparing**

You now have another way to compare the records of your players. Convert the fractions in your table to decimals. Use the decimals to rank your players. Does the order agree with the order you got when you compared fractions?

Finishing the Project

Make a poster to present your table and rankings to your class. You may wish to decorate the poster by adding a team name and logo, using homemade sports cards for some of your players, or sketching a team uniform. You could even make a tape-recorded interview with your top foul shooter!

Be sure your work is neat and clear. Write any explanations you think are necessary.

# Scoring Rubric

Your data is accurate and complete. **\_\_\_\_\_\_\_ (25) pts.**

You’ve used fractions, decimals and percents to compare the shooting

records of at least seven players. **\_\_\_\_\_\_\_ (25) pts.**

These seven players each make a different number of attempts so t hat your

fractions have different denominators. **\_\_\_\_\_\_\_ (25) pts.**

All your information is accurate and is displayed in an attractive table that

lists the players in order from best record to worst record. **\_\_\_\_\_\_\_ (25) pts.**