

Lesson 2.2

Enrichment and Extension

Using Fractions

Use fractions to solve each problem. Write the answer in simplest form.

1. After each round of a basketball tournament, half of the teams are eliminated. The tournament began with 64 teams.
 - a. How many teams are left after the third round?
 - b. How many rounds will have been completed after the championship game?
2. A deposit of \$1000 is made in a savings account. After one year, the new balance is $\frac{11}{10}$ the value of the original deposit.
 - a. Write a product that can be used to find the new balance in the account.
 - b. After the second year, the balance is $\frac{6}{5}$ the value of the account balance after the first year. Find the balance after the second year.

You make painting designs for your ceiling. You will paint the shaded region. Find the area of the shaded region in the design.

