Lesson 8 Problem-Solving Practice

Divide Mixed Numbers

1. **VIDEOTAPES** Lyle is putting his videotapes on a shelf. The shelf is 12 inches long. If each videotape is $1\frac{1}{2}$ inches wide, how many videotapes can he put side-by-side on the shelf?

2. **FOOD** DeLila has $4\frac{1}{2}$ pies to divide equally among 9 people. How much will each person get?

3. **GARDENING** Maurice mows lawns on Saturday. Last week it took him $5\frac{1}{2}$ hours to finish. This week it took only 5 hours. How many times longer did it take last week than this week?

4. **COOKING** Chris is cutting a roll of cookie dough into pieces that are $\frac{1}{2}$ inch thick. If the roll is $10\frac{1}{2}$ inches long, how many pieces can he make?

5. **SPORTS** While free-diving in the ocean, Tanya Streeter once set a record by diving 525 feet in $3\frac{1}{2}$ minutes. How many feet per minute did she dive?

6. **GARDENING** Pauline got $9\frac{3}{8}$ pounds of cherries from her tree this year. Last year she only got $6\frac{1}{4}$ pounds. How many times more pounds did she get this year than last year?

7. **SEWING** Jeanne has $3\frac{7}{8}$ yards of fabric. She needs $1\frac{1}{4}$ yards to make a pair of shorts. How many pairs of shorts can she make?

8. **EXERCISE** Del Ray can run $20\frac{1}{2}$ miles in $2\frac{1}{4}$ hours. How many miles per hour can he run?