

Multiplying Mixed Numbers (7-3)

| Multiply Mixed Numbers | |
|------------------------|--|
| Step 1 | Change the <u>mixed numbers</u> to <u>improper fractions</u> . |
| Step 2 | <u>multiply</u> the fractions. |
| Step 3 | <u>Simplify</u> , if possible. |

Example 1: Multiply the mixed numbers.

| I Do | You Do |
|---|---|
| $\frac{+2}{4} \cdot \frac{+3}{4}$ $11 \frac{22}{5} \cdot \frac{15}{2} 3 = \frac{33}{2}$ $1 \frac{5}{5} \cdot \frac{15}{2} = \frac{33}{2}$ 16.5 $16 \frac{1}{2}$ | $\frac{+1}{7} \cdot \frac{+3}{10}$ $3 \frac{15}{2} \cdot \frac{53}{10} 2 = \frac{159}{4}$ $3 \frac{15}{2} \cdot \frac{53}{10} = \frac{159}{4}$ $39 \frac{3}{4}$ |

Example 3: Use what you know about fractions to solve.

I Do

A volleyball court is $29\frac{1}{2}$ feet by 60 feet. What is the area of the volleyball court?



$$A = l \cdot w$$

$$= 60 \cdot 29\frac{1}{2}$$

$$= \frac{30}{1} \cdot \frac{59}{2} = \frac{1,770}{1}$$

$$= 1,770 \text{ feet}^2$$