

Ratios (8-1)

<i>ratio</i>	Decode <i>r.a.t.i.o</i>
Definition <i>compares two quantities</i>	Example <i>$\frac{4}{5}$ 4 to 5 4:5</i>

Example 1: Write a ratio to represent the situation.

I Do

A volleyball team has 6 players: 1 setter, 1 libero, 3 hitters, 1 defender. What is the ratio of hitters to total players? Write the ratio 3 ways.

$$\frac{3}{6} = \frac{1}{2} \quad 1:2 \quad 1 \text{ to } 2$$

What is the ratio of defenders to hitters? Write the ratio 3 ways.

$$\frac{1}{3} \quad 1:3 \quad 1 \text{ to } 3$$

Example 3: Write an equivalent ratio.

I Do	You Do
$\frac{7 \cdot 3}{15 \cdot 3} = \frac{x}{45}$ $x = 21$	$\frac{6 \cdot 3}{13 \cdot 3} = \frac{18}{y}$ $y = 39$
I Do	You Do
$\frac{21 \div 3}{54 \div 3} = \frac{7}{y}$ $y = 18$	$\frac{24 \div 6}{36 \div 6} = \frac{x}{6}$ $x = 4$