

# Simplifying Ratios with Decimals

Simplify the ratio:

$$0.6 : 0.12$$
$$60 : 12$$

The highest common factor (HCF) is 12.

$$\frac{5}{1} \frac{\cancel{60}}{\cancel{12}} : \frac{\cancel{12}}{\cancel{12}} \frac{1}{1}$$
$$5 : 1$$

## Description

Students simplify a ratio with decimals presented in the form  $a:b$ . Easier examples include a whole number and a decimal. Harder examples include ratios where both  $a$  and  $b$  are decimals, with up to two decimal places.

## Teaching Hints

Remind students that they must multiply both sides of the ratio by the same value. Use the animation to demonstrate to students the step-by-step process of solving these problems.

## Activities

Simplify the ratio:

$$0.01 : 2 = \square : \square$$

Easier Example

Simplify the ratio:

$$3.5 : 2.1 = \square : \square$$

Medium Example

Simplify the ratio:

$$0.36 : 0.06 = \square : \square$$

Hard Example