

# Lesson 1-5

## Example 1: Solving Equations with Decimals

Solve.

I Do	We Do	You Do
$y + 17.3 = -65$ <del><math>-17.3</math></del> ↓ $-17.3$ $y = -82.3$	<del><math>15.42</math></del> $t$ $\frac{t}{15.42} = 6.3 \cdot 15.42$ $t = 97.146$	<del><math>-16.29</math></del> $x$ $-16.29 + x = 28.358$ <del><math>+16.29</math></del> ↓ $+16.29$ $x = 44.648$

## Example 2: Solving Equations with Fractions

$$\begin{array}{r} -5 \\ + 2 \\ \hline \end{array}$$

Solve.

I Do	We Do	You Do
$x + \frac{1}{9} = -\frac{5}{18} - \frac{1}{9}$ <del><math>-\frac{1}{9}</math></del> ↓ $-\frac{1}{9}$ $x = -\frac{5}{18} - \frac{2}{18}$ $x = -\frac{7}{18}$	<del><math>5</math></del> $s$ $\frac{s}{5} = \frac{7}{24} \cdot \frac{5}{5}$ $s = \frac{7}{20}$	<del><math>7</math></del> $t$ $\frac{7}{17}t = -\frac{56}{17}$ <del><math>\frac{7}{17}</math></del> ↓ $\frac{7}{17}$ $t = -8$

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### Example 3: Solving Word Problems with Equations

<sup>michael</sup> owns a lawn mowing business. Let's say that <sup>michael</sup> has to mow 12 lawns this month. If <sup>michael</sup> is able to mow  $\frac{5}{7}$  of a yard each day, how many days will it take for him to mow all 12 lawns?

more than 12 days

$$\frac{12}{1} \div \frac{5}{7}$$

$$\frac{12}{1} \cdot \frac{7}{5} = \frac{84}{5} = 16\frac{4}{5} \text{ days}$$