

# Lesson 1-6

## Example 1: Problem Solving

The Redburn family is planning to go to the movies. They spend \$21.75 on snacks for the whole family. If there are 5 people in the family, how much did it cost per person to attend the movies if they spent \$43 total?

I Do	
cost → 43	tickets # 4.25
snacks → - 21.75	↓
<hr/>	5   21.25
22 ↓ ÷ = \$ 21.25	- 20 6
	12
	- 10 6
	<hr/>
	25
	- 25
	<hr/>
	0

$$\$43 = 21.75 + 5t$$

cost            snacks    ticket

Kailee made a total of \$485 last week. Her boss included a \$100 bonus in that total amount. If she worked 25 last week, how much money did she make per hour?

We Do/You Do	
\$ 485	15.4
- \$ 100	25   385.0
<hr/>	- 25 6
\$ 385	135
	- 125 6
	<hr/>
	100

$$485 = 100 + 25h$$

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## Example 2: Solving Two-Step Equations

Solve.

I Do	We Do	You Do
$\frac{x+1}{4} = \frac{29}{36}$ $x+1 = \frac{-29}{4}$ $x+1 = -7\frac{1}{4}$ $x+1 - 1 = -7\frac{1}{4} - 1$ $x = -8\frac{1}{4}$	$\frac{x-21}{14} = -\frac{27}{28}$ $x-21 = \frac{27}{2}$ $x-21 = 13\frac{1}{2}$ $x-21 + 21 = 13\frac{1}{2} + 21$ $x = 34\frac{1}{2}$	$-13y = 39$ $y = -3$
$x = -8\frac{1}{4}$	$x = 34\frac{1}{2}$	