

Warm Up

A telephone company charges \$0.15 per minute for local calls and \$0.20 per minute for long distance calls. Write an expression that gives the total cost in dollars for x minutes of local calls and y minutes of long distance calls.

Sarah is going to pay for an item using gift cards. The clerk tells her that she will need 3 gift cards and an additional \$4.50 to pay for the item. Write and algebraic equation using the variable g for the number of gift cards to pay for her total bill, t .

TWO - STEP EQUATIONS WITH WORD PROBLEMS

We will solve real world scenarios together on the this side.

Now you can apply the IPS strategy with the problems on your side.

Carrie had \$32 when she got to the carnival. After riding 6 rides, she had \$20 left. Find the price for each ride.

85 students went on a field trip. Three buses were filled and 25 students traveled in cars. How many students were on each bus?

I	P	S	I	P	S
started with \$32	$32 - 6x = 20$	$ \begin{array}{r} 32 - 6x = 20 \\ -32 \quad -32 \\ \hline -6x = -12 \\ -6 \quad -6 \\ \hline x = 2 \end{array} $			
6 rides					
\$20 left					
<u>8</u> rides		\$ 2			

Chuck jogged the same distance on Tuesday and Friday, and 8 miles on Sunday, for a total of 20 miles for the week. Find the distance Rick jogged on Tuesday and Friday.

You bought a magazine for \$5 and some notepads for \$3. You spent a total of \$26. How many notepads did you buy?

I	P	S	I	P	S
same distance for 2 days 8mi Sunday	$2x + 8 = 20$	$2x + 8 = 20$ $\quad - 8 \quad - 8$ <hr/> $2x = 12$ $2 \quad 2$ $x = 6$			
total 20mi		<div style="border: 1px solid red; border-radius: 50%; padding: 5px; display: inline-block;">6 miles</div>			

Susan bought 5 reams of paper at the store for a total of \$21. The tax on her purchase was \$1. Find the price for each ream of paper.

Willie rented a bike from Sarawong's Bikes. It cost \$17.50 plus \$5 per hour. If Willie paid \$47.50 then he rented the bike for how many hours?

I	P	S	I	P	S
5 reams of paper	$5x + 1 = 21$	$\begin{array}{r} 5x + 1 = 21 \\ - 1 \quad - 1 \\ \hline 5x = 20 \\ 5 \quad 5 \\ \hline x = 4 \end{array}$			
\$1 tax					
\$21 total					
		<div style="border: 1px solid red; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">\$4</div>			

Half of your baseball card collection got wet and was ruined. You bought 11 cards to replace some that were lost. How many did you begin with if you now have 24?

A wise man once said, "500 reduced by 4 times my age is 232." What is his age?

I	P	S	I	P	S

Ashley won 40 lollipops playing hoops at her school's game night. Later, she gave two to each of her friends. She only has 4 remaining. How many friends does she have?

Exit Ticket:

Create your own word problem that would require a two-step equation to solve. Write the equation. Solve.

I	P	S	I	P	S

WARM-UP

Solve for x.

1) $x + 5.6 = 9.8$

2) $x - 1.7 = 9$

3) $x + 2.25 = 7.85$

4) $-6x = 36$

5) $1.1x = 110$

6) $-0.9x = 8.1$

7) Write an expression for the perimeter of a rectangle, whose length is three times as long as the width.

AGENDA

Warm-Up

**Check
network**

**cornell
Notes:**

**Two-Step
Equations
(EE.4A)**

**Independent
practice**

1) A recipe for cookies calls for $3\frac{1}{4}$ cups of sugar. Amy has already put in $3\frac{1}{9}$ cups. How many more cups does she need to put in?

2) Your mother gave you \$13.32 with which to buy a present. This covered $\frac{3}{5}$ of the cost. How much did the present cost?

3) If the weight of a package is multiplied by $\frac{5}{7}$ the result is 40.5 pounds. Find the weight of the package.

4) A stray dog ate 12 of your muffins. That was $\frac{3}{10}$ of all of them! With how many did you start?