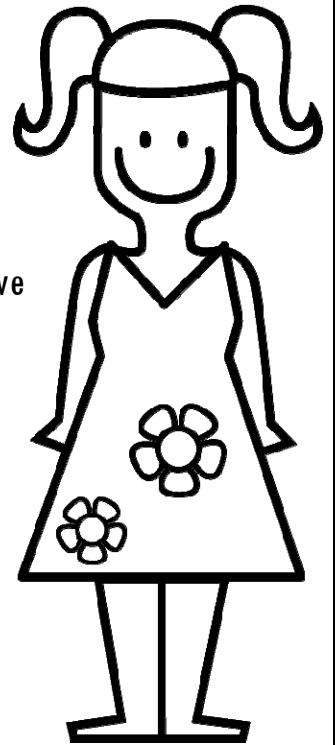


Name \_\_\_\_\_

Date \_\_\_\_\_

## Pre-algebra Word Problems Step-by-Step Lesson

Toni gave half of her collection of stickers to Anna. Toni got 10 stickers from her friend after that. If Toni has 37 stickers currently, how many stickers did Tony have in her collection originally?



**Explanation:**

We start by representing the sticker collection original value as the variable  $x$ .

Now we determine what was done to  $x$  using an equation.

1. Toni gave half of her collection of stickers to Anna. In equation form:

$$x \div 2$$

2. Toni got 10 stickers from her friend after that. In equation form:

$$(x \div 2) + 10$$

3. Toni has 37 stickers currently. So the equation is equal to 37 or:

$$(x \div 2) + 10 = 37$$

4. Now we just solve for  $x$  by getting it by itself.

$$(x \div 2) + 10 = 37 \quad \text{(subtract 10 from both sides)}$$

$$(x \div 2) = 27 \quad \text{(multiply both sides by 2)}$$

$$x = 54$$

Toni's sticker collection started with 54 stickers.

