

last problem  
on p.2

$$\frac{2N}{5} - 23 = 11$$

+23      +23

$$\frac{2N}{5} = 34$$

•5      •5

$$2N = 170$$

$\frac{2N}{2} = \frac{170}{2}$

$$N = 85$$

to undo  
÷ use  
\*

p.1

combine like terms on same side

$$U - 4U + 4 = 7$$

$$-3U + 4 = 7$$

$$\begin{array}{r} -4 \\ -4 \end{array}$$

$$\frac{-3U}{-3} = \frac{3}{-3}$$

$$U = -1$$

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p.3  
#7

$x=1$  is given → plug in 1 for  $x$

$$5x + y = 6$$

$$5(1) + y = 6$$

$$5 + y = 6$$

-5      -5

$$y = 1$$

$$1) \frac{n}{5} + 25 = -10$$

$$2) -13 + x = 4x + 23 + 6x$$

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### QUIZ REVIEW (Thinking Deeper)

1. A rectangle has perimeter 30 feet, width  $w$  feet, and length 10 feet.  
Write as many equations as you possibly can that could be used to solve for the width.

$P=30$  

Perimeter: sum of all sides  
(add them up)

$$10 + 10 + w + w = 30$$

$$20 + 2w = 30$$

$$20 + 2w = 30$$

$$-20 \quad -20$$

$$2w = 30 - 20$$

$$2w = 10$$

$$w = 5$$

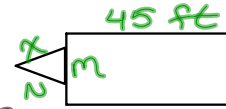
$$2(w + 10) = 30$$

take half of both

$$w + 10 = 15$$

2. If the triangle below is isosceles, and the perimeter of the triangle is 28 feet. Write an expression that could be used to solve for  $m$ .

Isosceles:  
2 sides  
are equal



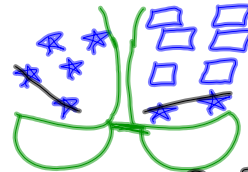
$$x + x + m = 28$$

$$-x \quad -x \quad -m$$

$$m = 28 - x - x$$

$$m = 28 - x - x \text{ combine terms}$$

3. Assuming the scales are in balance and every square block weighs one pound, describe how you would go about figuring out the weight of one star.



- \* Take away 2 stars from both sides
- \* Split the blocks into groups of 3
- 1 star = 2 blocks