# NEED TEXTBOOK!!!



#### Created by: 6<sup>th</sup> block seat A2 Warmup $11/(3 \cdot (1/2)^{-1} + 10 - 5 \cdot (1/2)^{-1})$ days until the person who sits at A2 in Mr. Lischwe's 6<sup>th</sup> block's birthday

- 1. Solve the equation:  $1\frac{2}{5}x = 12\frac{3}{5}$
- 2. Solve the equation: -3x 45 = -35
- 3. Compare warmup answers with your table. Discuss and revise, if needed.

 $-3\times = 10$ 



 $\chi = -\frac{10}{3} \text{ or } -3\frac{1}{3} \text{ or } -3.5$ 

#### **BACK TO YOUR 2-STEP EQUATIONS NOTES!**

#### Solve the Equation:

 $\frac{1}{3}x + 3 = 9$ 

#### Solve by multiplying first:

 $\frac{3}{3}x + 3 = 9^{3}$ 

x + 9 = 27-9 -9

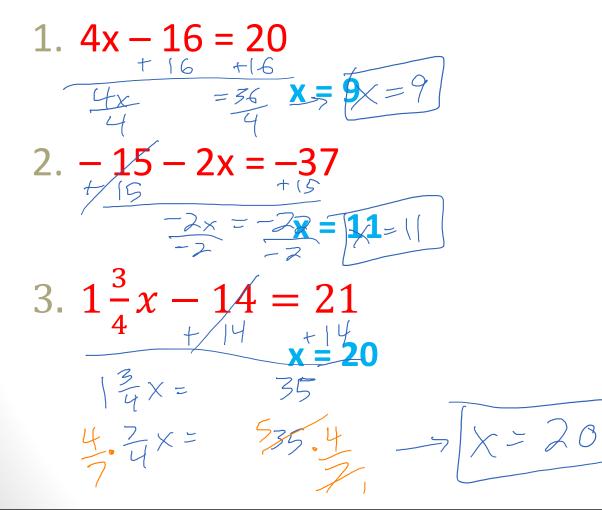
= |S|

#### **TO CHECK YOUR ANSWER:**

• Plug your solution back in and see if the equation is true!!!

#### Examples

#### SOLVE. Check each answer.





4(9)-16=20 36-16=20 20=20/

(2) - (5 - 2(11)) = -37-15-22=-37 -37 = -37

3 7 (30)-14=21

35-14-21 21=21/

### Can you DIVIDE first???

4x - 16 = 204 4 x - 16 = 5+16 +16 = 21 X



If you CHECK this answer, will it work???

#### Can you DIVIDE first???

4x - 16 = 204 4 4 x - 4 = 5+4 +4 **x** = **9** 

**Check** 



• When you MULTIPLY or DIVIDE both sides...

# • You need to multiply or divide EVERY SINGLE TERM IN THE EQUATION.

• (This is why most people prefer to leave the multiplying or dividing step until the very end.)

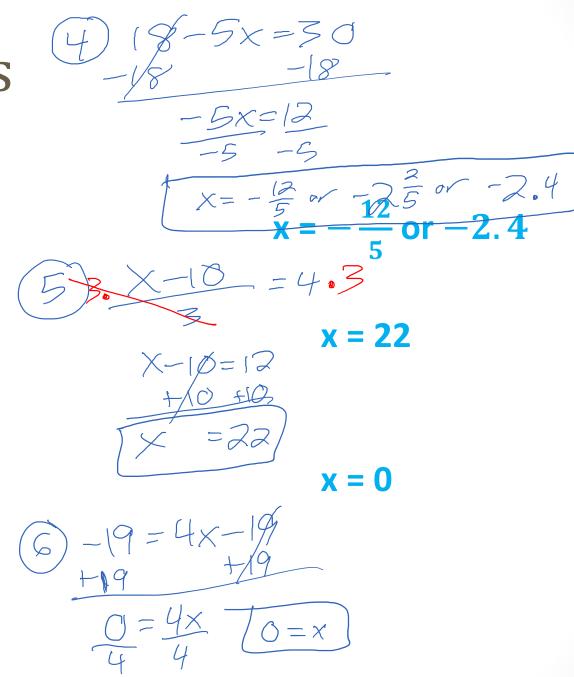
#### More examples

SOLVE. Check each answer.

4. 18 - 5x = 30

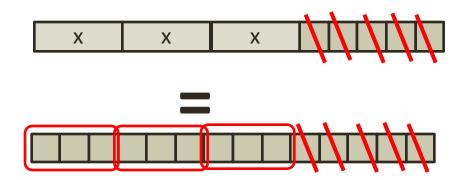
5.  $\frac{x-10}{3} = 4$ 

6. -19 = 4x - 19



#### Showing with diagrams...

• 3x + 5 = 14

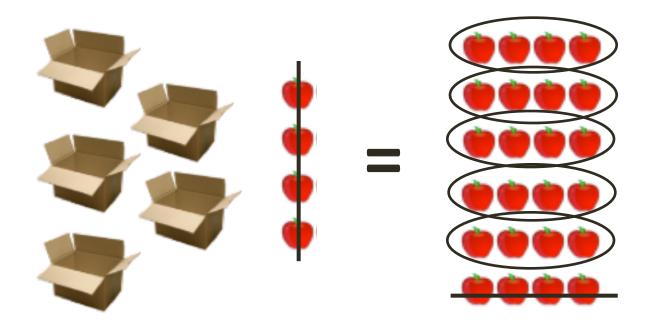


Draw a BAR diagram to represent this equation...

-17 = 2x + 9

#### Boxes and Apples...

#### 5x + 4 = 24



## HOMEWORK (Due Thursday)

• p.125 (1 – 10) + check each answer

• YOU MUST CHECK YOUR ANSWERS!!! (That's what the instructions say!)