

Warmup 10/(# of claws a werewolf has • (# of fingers Frankenstein has on one hand – 2 fingers that fell off) + # of eyes a cyclops has)

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- (This is Week 4!)
- Number your paper from 1 to 6. On the next 6 slides are the 6 problems of the warmup. We will go through them together, starting **1 minute after announcements end**.

Which step is right?

$$8x + 2x = 50$$

$$\begin{array}{r} 8x + 2x = 60 \\ -2x \quad -2x \\ \hline 6x = 60 \end{array}$$

$$\begin{array}{r} 8x + 2x = 60 \\ 10x = 60 \end{array}$$

**A**

**B**

Which step is right?

$$4x - 9 = x - 12$$

$$\begin{array}{r} 4x - 9 = x - 12 \\ -x \quad +x \\ \hline 3x - 9 = -12 \end{array}$$

**A**

$$\begin{array}{r} 4x - 9 = x - 12 \\ +x \quad +x \\ \hline 5x - 9 = -12 \end{array}$$

**B**

Which step is right?

$$-4(x - 10) = 36$$

**A.**  $-4x - 40 = 36$

**B.**  $-4x + 40 = 36$

**C.**  $-4x - 10 = 36$

Which step is right?

$$-14 + 4x = 6x + 7$$

$$\begin{array}{r} -14 + 4x = 6x + 7 \\ -4x \quad -4x \\ \hline -14 = 2x + 7 \end{array}$$

**A**

$$\begin{array}{r} -14 + 4x = 6x + 7 \\ -14 = 10x + 7 \end{array}$$

**B**

Which step is right?

$$10 + 2(3x - 4) = 20$$

$$\begin{array}{r} 10 + 2(3x - 4) = 20 \\ 12(3x - 4) = 20 \\ 36x - 48 = 20 \end{array}$$

**A**

$$\begin{array}{r} 10 + 2(3x - 4) = 20 \\ 10 + 6x - 8 = 20 \\ 6x + 2 = 20 \end{array}$$

**B**

## Which steps are right?

$$-3x + 14 = 10x + 6 - 8x$$

$$\begin{array}{r} -3x + 14 = 10x + 6 - 8x \\ +8x \quad \quad +8x \\ \hline \end{array}$$

**A**  $5x + 14 = 10x + 6$

$$\begin{array}{r} -3x + 14 = 10x + 6 - 8x \\ +8x \quad \quad +8x \\ \hline \end{array}$$

**B**  $-3x + 14 = 18x + 6$

$$(-3x) + 14 = (10x) + 6 - 8x$$

$$-3x + 14 = (10x) + 6 - (8x)$$

**C**  $7x + 14 = 6 - 8x$

**D**  $-3x + 14 = 2x + 6$

## Quizzes...

- Not graded yet
- (I got back last night at 11:00!)

## Whiteboards!

## Word Problems

- For each problem:
  - 1) Define a variable.
  - 2) Write an equation representing the situation.
  - 3) Solve the equation and describe the meaning of your solution.

- Meigs' Mathletes need money to travel to a competition. They have raised \$560. They need to raise a total of \$1680. Write and solve an equation to find how much more they need.



- 1) Define a variable.
- 2) Write an equation representing the situation.
- 3) Solve the equation and describe the meaning of your solution.

- You are buying some shirts. You have to pay \$10 for shipping, plus \$8 per shirt. You have \$66 to spend.

- 1) Define a variable.
- 2) Write an equation representing the situation.
- 3) Solve the equation and describe the meaning of your solution.

- A group of people went to the movies. They each spent \$6.50 per ticket. They spent \$17.50 together on snacks. Altogether, they paid \$63.00.

- 1) Define a variable.
- 2) Write an equation representing the situation.
- 3) Solve the equation and describe the meaning of your solution.



- Dion's long-distance phone bill was \$4.80. His long-distance calls cost \$0.05 per minute. Write an equation to find the number of minutes he was charged for.

- 1) Define a variable.
- 2) Write an equation representing the situation.
- 3) Solve the equation and describe the meaning of your solution.



## Greg's Age

- Four times Greg's age, decreased by 3 is equal to 3 times Greg's age increased by 7. How old is Greg?

10



- John has four less than three times as much money as Jane. John has \$44.

- 1) Define a variable.
- 2) Write an equation representing the situation.
- 3) Solve the equation and describe the meaning of your solution.

- You enter the fair with \$35. You buy 14 tickets, which all cost the same amount. After you buy the tickets, you have \$7 left.

- 1) Define a variable.
- 2) Write an equation representing the situation.
- 3) Solve the equation and describe the meaning of your solution.



- Billy started with \$7 and made \$3 per week. Bobby started with \$2 and made \$4 per week. How many weeks will it take for them to have the same amount of money? How much money will they both have?

- Write a story problem that could be modeled by the equation  $3x + 8 = 20$ .

### Lilly's Age

- In 16 years, Lilly will be 5 times as old as she is now. How old is Lilly now?

No Homework