

# Activator

Solve the equation for the variable (number).

Determine the value (number) of the variable.

$$\begin{array}{r} x + 7 = -4 \\ \quad -7 \quad -7 \\ x + 0 = -11 \\ x = -11 \end{array}$$

$$\begin{array}{r} w - 5 = 8 \\ \quad +5 \quad +5 \\ w + 0 = 13 \\ w = 13 \end{array}$$

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Unit 2 Review

Do the opposite of the number with the variable.

# Today's Objective

Unit 2  
Lesson A

Students will be able to review  
Unit 2 solving equations.





# Today's New (1 of 4)

Unit 1 PEMDAS

Parentheses

Exponents

Multiply

Divide

Add

Subtract

Unit 2 PSADME

Use opposites in Unit 2 to determine the missing.

# Today's New Vocab (2 of 4)

Determine the value of the variables.

$$\begin{array}{r} \text{Solve } \frac{x}{-2} = -4 \\ (-2) \quad (-2) \\ 1x = 8 \\ x = 8 \end{array}$$

$$\begin{array}{r} \text{Solve } -2 + w = -10 \\ +w - 2 = -10 \\ +2 \quad +2 \\ 0 + w = -8 \\ w = -8 \end{array}$$

# Today's New Vocab (3 of 4)

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Unit 2 Review

Solve the two step equation.

$$-5x + 4 = -6 \quad \text{What is happening to } x?$$

$$\begin{array}{r} -4 \quad -4 \\ -5x + 4 = -6 \\ \hline -5x = -10 \end{array}$$

$$-5x = -10$$

$$\begin{array}{r} \div -5 \quad \div -5 \\ -5x = -10 \\ \hline x = 2 \end{array}$$

$$x = 2$$

Multiplied by -5

Then, add 4

Do **opposite** backwards

**PSADME**

# Today's New Vocab (4 of 4)

There are **TWO MISTAKES** in this problem.

Can you find them? Solve it correctly.

$$4 - 2x = -2$$

$$+4 \qquad \qquad +4$$

$$\frac{2x}{2} = \frac{2}{2}$$

$$x = 1$$

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Unit 2 Review

- (1) Opposite of 4 is -4
- (2) Forget to bring down the minus sign with the left 2

$$4 - 2x = -2$$

$$-4 \qquad \qquad -4$$

$$-2x = -6$$

$$\div -2 \qquad \div -2$$

$$x = 3$$

# Group Work Questions

Pages 7-8  
Unit 2 Review

Directions: All groups, please do all of the questions. Use your notes to help you. [Ask 2 people before you ask me.]

Stop at 9:26 or 10:56 or 12:50 or 2:15

Do a few questions on the study guide if you finish early.

\*One person from each group will present one question.



# Group Wars

Solve the three step equation. Explain each step.

$$3(5x - 4) = 18$$

$$15x - 12 = 18$$

$$+12 \quad +12$$

$$15x = 30$$

$$\div 15 \quad \div 15$$

$$x = 2$$

P ( ) Distribute

Addition

Divide

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Unit 2 Review

# Exit Ticket

$$\begin{aligned} \frac{x}{-2} &= 8 \\ (-2) \quad & \quad (-2) \\ 1x &= -16 \\ x &= -16 \end{aligned}$$

Solve for  
x and p.

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Unit 2 Review

$$\begin{aligned} 8 &= -2(p) \\ 8 &= -2p \\ \div -2 \quad & \quad \div -2 \\ -4 &= 1p \\ -4 &= p \end{aligned}$$

Do the opposite of the number with the variable.

## Lesson 2.2 Game Which is correct?

• **Directions:** With your group, analyze the mistakes in challenge 1. Then, **choose the correct answer for each question.**

**Beat all 3 Levels: WIN THE GRAND PRIZE**  
Earn \$120 for ALL 3 correct challenges.

Questions do NOT earn \$5 during this game.

## Lesson 2.3 Game Matching

Calculator and Folder

### **Round 1: Earn \$50**

There are 5 questions with STARS. **Solve** the 5 questions correctly. Some questions have more steps and work than others.  
Rule #1: The group leader **cannot** touch/point any pieces.  
Rule #2: The leader must check & help using words only.  
Rule #3: No pencils are allowed. There is nothing to write.

### **Round 2: Earn \$50 → paid as \$100 at the end.**

All group members should substitute the answers into the questions to check your work.

## Lesson 2.6 Game

### **Matching Game**

If you finish early,  
please do #2, 16, 10  
on the Study Guide.

- The questions are numbered #1 - #7.
- Put the questions (numbers) across the group's desks.

|    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|
| #1 | #2 | #3 | #4 | #5 | #6 | #7 |
|----|----|----|----|----|----|----|

- Then, find the work (the small pieces).  
Put the other pieces below the questions.
- Put the correct work/answers below each #.
- Some have more steps than others.

|   |
|---|
| G |
| P |
| R |

All correct answers are worth \$100 per person today. Paid @ end.

**Finish pages 7A-8B in your packet if they are not completed from yesterday after doing all 3 games.**

# Activator

Solve the left equation.

$$3x + 4x = 21$$

$$7x = 21$$

$$\div 7 \quad \div 7$$

$$x = 3$$

$$4x = 3x + 7$$

$$-3x \quad -3x$$

$$1x = 0 + 7$$

$$x = 7$$

Why are the x's subtracted in the right equation?

The x's are on different sides of the equation =.