

# Unit I

# Intro to Algebra

Homework

**SOLVING**  
**ONE-STEP EQUATIONS**

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Circle One  
Due: M T W Th F

# Intro to Algebra

(Solving One-Step Equations)

Directions: Answer problems #1-5. Show all your work!

1

Solve for x:

a.)  $x + 13 = 9$

b.)  $x - 7 = 12$

Solve for x:

a.)  $x + 5 = -12$

b.)  $x - 9 = -11$

5

Solve for x:

a.)  $\frac{1}{2}x = -8$

b.)  $-\frac{3}{4}x = 12$

Solve for x:

a.)  $5x = -25$

b.)  $-6x = -24$

Solve for x:

a.)  $\frac{2x}{5} = -8$

b.)  $-\frac{x}{5} = -1$

3

4

# Intro to Algebra

## (Solving One-Step Equations)

Directions: Answer problems #6-8. Show your work!

**6** Find the mistake!

Circle the mistake below and explain why it is wrong:

Solve for x:

$$-12x = -6$$

$$\frac{-12x}{-12} = \frac{-6}{-12}$$

$$x = \frac{6}{12}$$

$$x = 2$$

Explanation:

**7** Be Creative!

Create your own word problem and solve below:

**8** Reflection:

From this homework assignment, I ...

Circle One  
Due: M T W Th F

## Intro to Algebra

(Solving One-Step Equations)

Directions: Answer problems #1-5. Show all your work!

1

Solve for x:

$$\begin{array}{r} \text{a.) } x + 13 = 9 \\ \underline{-13 \quad -13} \\ x = -4 \end{array}$$

$$\begin{array}{r} \text{b.) } x - 7 = 12 \\ \underline{+7 \quad +7} \\ x = 19 \end{array}$$

2

Solve for x:

$$\begin{array}{r} \text{a.) } x + 5 = -12 \\ \underline{-5 \quad -5} \\ x = -17 \end{array}$$

$$\begin{array}{r} \text{b.) } x - 9 = -11 \\ \underline{+9 \quad +9} \\ x = -2 \end{array}$$

5

Solve for x:

$$\begin{array}{r} \text{a.) } \frac{1}{2}x = -8 \\ 2 \cdot \frac{1}{2}x = -8 \cdot 2 \\ x = -16 \end{array}$$

$$\begin{array}{r} \text{b.) } -\frac{3}{4}x = 12 \\ -\frac{4}{3} \cdot -\frac{3}{4}x = 12 \cdot -\frac{4}{3} \\ x = -16 \end{array}$$

Solve for x:

$$\begin{array}{r} \text{a.) } \frac{5x}{5} = \frac{-25}{5} \\ x = -5 \end{array}$$

$$\begin{array}{r} \text{b.) } \frac{-6x}{-6} = \frac{-24}{-6} \\ x = 4 \end{array}$$

Solve for x:

$$\begin{array}{r} \text{a.) } \frac{2x}{5} = -8 \\ \frac{5}{2} \cdot \frac{2x}{5} = -8 \cdot \frac{5}{2} \\ x = -20 \end{array}$$

$$\begin{array}{r} \text{b.) } -\frac{x}{5} = -1 \\ -5 \cdot -\frac{x}{5} = -1 \cdot -5 \\ x = 5 \end{array}$$

3

4

# Intro to Algebra

## (Solving One-Step Equations)

Directions: Answer problems #6-8. Show your work!

**6** Find the mistake!

Circle the mistake below and explain why it is wrong:

Solve for x:

$$-12x = -6$$

$$\frac{-12x}{-12} = \frac{-6}{-12}$$

$$x = \frac{6}{12}$$

$$x = 2$$

Explanation:

The fraction  $\frac{6}{12}$  is not equal to 2.

$$\frac{6}{12} \neq 2$$

$$\frac{6}{12} = \frac{1}{2}$$

**7** Be Creative!

Create your own one-step equation and solve below:

In order to receive credit, students need to create their own problem and solve it.

**8** Reflection:

From this homework assignment, I ...

Students need to write a good reflection about 2-3 sentences long. They cannot write "I learned how to do math" or anything similar. The reflection needs to show serious thought.



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