#### Do Now:

1) 
$$24 = 4x$$

$$2) 2x + 5 = 27$$

$$3) 8x - 12x = 4$$

Do Now: Copy this into your notes section of your notebook.

Drum lessons at the youth center cost(\$8) for members and \$12 for nonmembers Membership is \$24) (For what number) of essons is the cost the same for a member and a nonmember?

Members Nonmembers 
$$24 + 81 = 121$$

Opp. Sides Opp. Operation

The cost will be the same at 6 lessons.

$$\begin{array}{ccc} & & & 24 + 8(6) = 12(6) \\ & & & 24 + 48 = 72 \\ & & & & 72 = 72 \end{array}$$

## Answers to the Workbook

1. No; 
$$w = 2$$

4. No; 
$$g = 13$$

4. No; 
$$g = 1$$

5. 
$$x = 4$$

7. 
$$w = -3$$

18. 
$$p = -2$$

$$11.$$
 k = 31

$$(13)$$
 c = 11

#### 6.2 Solving Equations with Variables on **Both Sides**

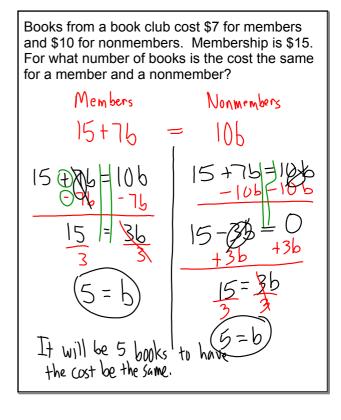
7.NS 7.EE

- SWBAT solve equations that have variables on both sides.
- SWBAT represent and analyze situations using algebraic symbols.

Calculators: Yes

Drum lessons at the youth center cost \$8 for members and \$12 for nonmembers.

Membership is \$24. For what number of lessons is the cost the same for a member and a nonmember?



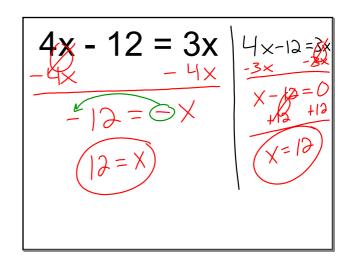
Solve:  

$$3x = x + 2$$

$$-x - x$$

$$0x = 3$$

$$x = 1$$



6.2 MC3.notebook

January 06, 2016

Solve.

1. 
$$4p = 6p - 12$$

2. 
$$63 + 11w = 4w$$

$$5m + 18 = 15m - 24 = 4m$$

$$5m + 18 = 1|m - 24|$$

$$-5m$$

$$18 = 6m - 24|$$

$$+24 + 24|$$

$$42 = 8m$$

$$6 + 24 + 24|$$

$$7 = m$$

$$-7q + 2 = 11q = 8q$$

$$-7q + 2 = 11q = 8q$$

$$+2 = 3q$$

$$+7q$$

$$2 = 8q$$

$$10$$

$$2 = 9$$

$$1 = 9$$

$$1 = 9$$

$$21x = 3(2x + 30)$$

$$21x = 6x + 90$$

$$-6x - 6x$$

$$15 = 90$$

$$15 = 6$$

$$15 = 90$$

$$15 = 6$$

$$2x - 6 = 4(5x + 12)$$

$$2x - 6 = 4(5x + 12)$$

$$2x - 6 = 20x - 48$$

$$-2x - 6 = 14x + 48$$

$$-54 = 18x$$

$$-3 = x$$

Each side of the triangle has the same length, find the perimeter.



Two sides of a square are shown, find the perimeter.

Each side of the triangle has the same length, find the perimeter.



Two sides of a square are shown, find the length of one of the sides.

_16y - 43	_
	4y + 65

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#### Exit Pass 6.2

To solve equations with variables on both sides, what do you do first?

"Don't blame the sea if you cannot catch a fish."

Working individually or with a partner, complete the workbook.

Workbook pg.



## **Reflection of Today's Lesson**

# 6.2 Solving Equations with Variables on Both Sides

7.NS 7.EE

- SWBAT solve equations that have variables on both sides.
- SWBAT represent and analyze situations using algebraic symbols.

Calculators: Yes

### <u>Homework</u>

pg. 280 #7-35 odds

