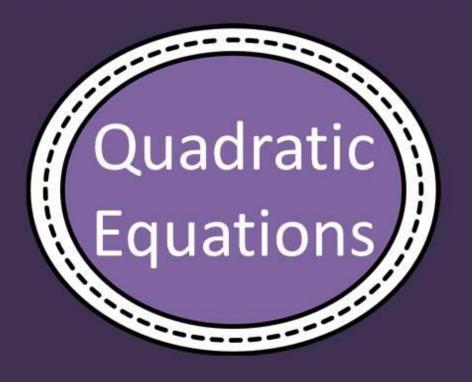
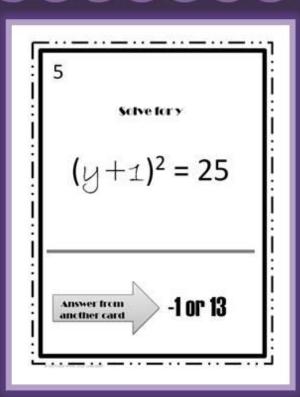
Using the Square Root Property





Walk-Around Activity

Level 1

Walk-Around Activity: Using the Square Root Property

By Caryn White

Table of Contents

Copy Right Informations:	
Instructions	
Version A	4
Absent Student Version	14
Student Response Page – Version A1	16
Student Response Page – Version A2	17
Version B	17
Version 2	18
Student Response Page – Version B1	19
Student Response Page – Version B2	20
KEYS	21
Credits	22

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Instructions

This activity is designed to help students with solving quadratic equations using the square root property. This is a beginning to level 1 activity, which means all the square roots are perfect squares.

This activity also gets students up and about. Place the 10 cards on the wall around your room. Students pick any card to begin with. They should work the problem on the page, then students look around the room for a graph that matches theirs. They should continue working until they return to the card they started with.

Included are 2 versions of this activity.

- One with 10 cards for use as a walk-around activity (and an absent student size)
- A shorter version with only 5 cards great for table work, bell work or use as a review.

To help with grading, I have included 2 student answer sheets: One that includes room to show work, and another with just boxes.

Hints and suggestions:

When making copies of the shorter version, I use different colored paper. This allows for easier identification when students misplace a piece.

Possible Uses

- Mid-Lesson or End of Lesson Check for understanding
- Math Station for students that have finished work early
- Test Review
- Homework Alternative
- Bell work

Have Fun. Thanks for your purchase.

Solve for m

$$m^2 - 12 = 109$$

Answer from another card

Solve for c

$$3c^2 - 17 = 10$$

Answer from another card

3.5

Solve for x

$$\frac{1}{2} \times^2 = 18$$

Answer from another card

11 or 5

Solve for v

$$(\sqrt{+5})^2 = 4$$

Answer from another card

Solve for y

$$(y+1)^2 = 25$$

Answer from another card

-1 or 13

Solve for x

$$(x-6)^2 = 49$$

Answer from another card

-4 or 14

Solve for x

$$(2x-\mathcal{F})^2=0$$

Answer from another card

-7 or -3

Solve for y

$$(y-4)^2 = 64$$

Answer from another card

Solve for W

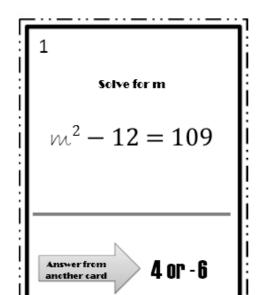
$$(w-5)^2 = 81$$

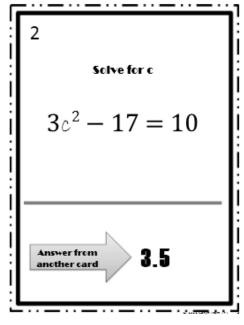
Answer from another card

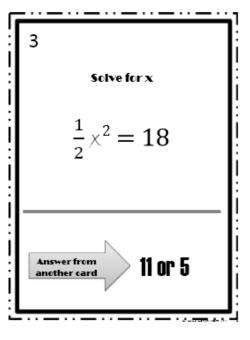
Solve for x

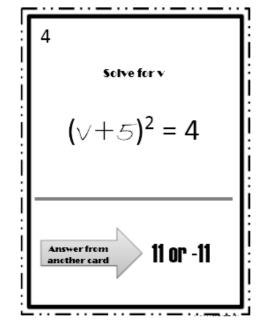
$$3(x-8)^2=27$$

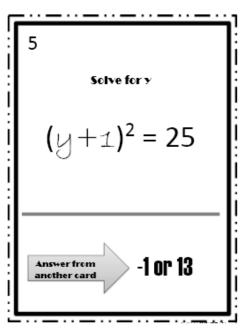
Answer from another card

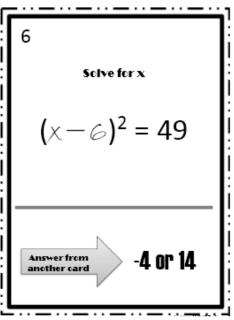


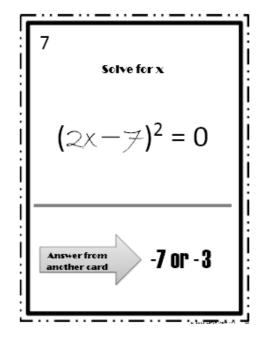


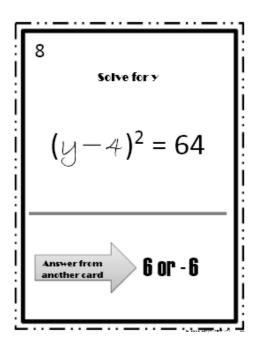


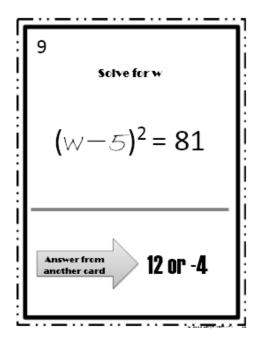


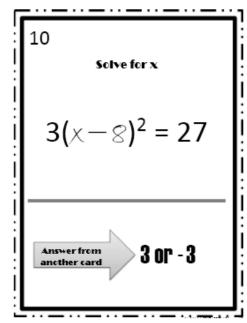












Student Response Page - Version A1

					Name _		
					Period _		
Pick a card then find the first card aga	e solution or		•	•	•	•	

Show work below

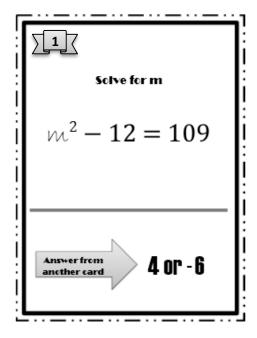
Student Response Page - Version A2 Name _____ Period _____ Pick a card to start with. Write the number in the 1st box. Solve the quadratic equation using the square root property, then find the solution on another card. Write the card number in the 2nd box, and then continue until you reach your first card again. **Student Response Page** Name _____ Period ____ Pick a card to start with. Write the number in the 1st box. Solve the quadratic equation using the square root property, then find the solution on another card. Write the card number in the 2nd box, and then continue until you reach your first card again. Name _____ Student Response Page Period _____ Pick a card to start with. Write the number in the 1st box. Solve the quadratic equation using the square root property,

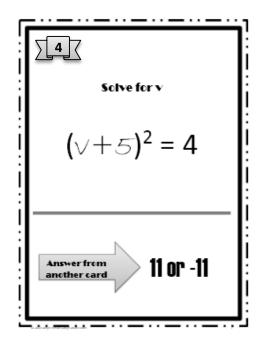
then find the solution on another card. Write the card number in the 2nd box, and then continue until you reach your

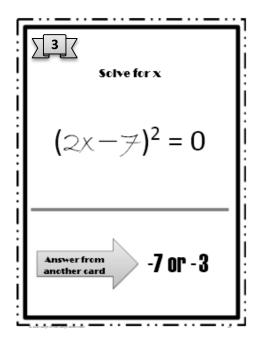
Version B

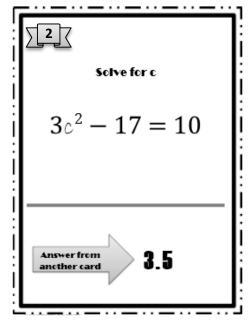
first card again.

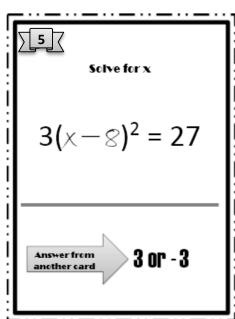
Version 2











Student Response Page - Version B1

student Response i age	version bi		Name Period	
		•	c equation using the square root prope , and then continue until you reach you	-
Show work below				
Student Response Page			Name Period	
			c equation using the square root prope , and then continue until you reach you	-
Show work below				

Student Response Page - Version B2

student Response i age	version	<i>52</i>			me riod
Pick a card to start with. Writ then find the solution on anot first card again.			-	-	
Student Response Page					me riod
Pick a card to start with. Writ then find the solution on anot first card again.			-	-	
Student Response Page					me riod
Pick a card to start with. Writ then find the solution on anot first card again.			•	equation usi	ng the square root property,

Version A - Set of 10 Cards

1 4 7 2 10 3 8 9 6 5

Note: Students may start with any cards; shift the answer to match the starting point.

Version B: Set of 5 Cards

1 4 3 2 5

$$\frac{1. \text{ m}^{2} - 12 = 109}{m^{2}} = 121
\sqrt{(m)^{2}} = \pm\sqrt{121}
m = \pm 11$$

$$\frac{3c^{2} = 27}{c^{2} = 9}
\sqrt{(c)^{2}} = \pm\sqrt{9}
c = \pm 3$$

$$\frac{4. (v+5)^{2} = 4}{\sqrt{(v+5)^{2}}} = \pm\sqrt{4}
v+5 = \pm 2
v=-5 \pm 2
v=-7 or - 3$$

$$\frac{5. (y+1)^{2} = 25}{\sqrt{(y+1)^{2}}} = \pm\sqrt{25}
v=-6 or 4$$

$$\frac{7. (2x-7)^{2} = 0}{2x-7} = 0$$

$$2x = 7
v = \frac{7}{2}$$

$$\frac{2. 3c^{2} - 17 = 10}{3c^{2}} = 27
c^{2} = 9
\sqrt{(c)^{2}} = \pm\sqrt{9}
\sqrt{(x)^{2}} = \pm\sqrt{6}
x = \pm 6$$

$$\frac{3. \frac{1}{2}x^{2} = 18}
x^{2} = 36
\sqrt{(x)^{2}} = \pm\sqrt{6}
x = \pm 6$$

$$\frac{5. (y+1)^{2} = 25}{y+1 = \pm 5}
y=-1 \pm 5
y=-6 or 4$$

$$\frac{7. (2x-7)^{2} = 0}{y-4 = \pm 8}$$

$$\frac{7}{y} = -4 \text{ or } 12$$

$$\frac{7}{y} = -4 \text{ or } 14$$

10.
$$3(x-8)^2 = 27$$

 $(x-8)^2 = 9$
 $\sqrt{(x-8)^2} = \pm \sqrt{9}$
 $x-8 = \pm 3$
 $x = 8 \pm 3$
 $x = 5 \text{ or } 11$

Credits

All graphics were designed by Caryn White except the following.

