

TRIPLES ACTIVITY

SOLVING QUADRATIC EQUATIONS

Directions: Choose the **best method** to solve each of the 12 equations. Circle the letter of the equation in the circle under your chosen method, then solve.

COMPLETING THE SQUARE

FORMULA

FACTORING

A

$$x^2 + 3x + 46 = 0$$

F

$$4x^2 - 25 = 0$$

K

$$9x^2 + 12x - 1 = 0$$

QUADRATICS

(Choosing the Best Method)

Created by: ALL THINGS ALGEBRA®

SOLVING QUADRATICS

triples activity

Objective: Students will practice choosing the best method to solve a quadratic equation (factoring, square roots, completing the square, and the quadratic formula) with this Triples Activity. There are 12 cards total. Students must identify three equations to solve by factoring, three equations to solve by square roots, three equations to solve by completing the square, and three equations to solve by the quadratic formula. **Rational, irrational, and complex solutions included.**

Note: There are two versions of the equations included. One version with all equations in standard form (set equal to 0), and another version in which the equations are not in standard form and have terms on both sides. **Choose the version that works best for your students.**

Directions:

This activity can be completed independently, with a partner, or with a small group. Distribute the template to each student along with the 12 cards. Since each method can be used at most three times, I recommend students sort through the cards to make decisions first prior to solving.

Once students have chosen their methods, they record the equation letter in the circle in the corresponding method row, then solve. The letters will make the assignment easier to grade.

SOLVING QUADRATIC EQUATIONS Triples Activity

Name: _____ Date: _____ Per: _____

Directions: Choose the **best method** to solve each of the 12 equations. Each method can be used at a most three times. Record the letter of the equation in the circle under your chosen method, then solve. Give all irrational and complex solutions.

FACToring	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
SQuare Roots	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
CoMpleting the Square	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
QuADratic Formula	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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A $x^2 + 3x + 46 = 0$

D $x^2 - 4x - 50 = 0$

F $4x^2 - 25 = 0$

H $x^2 - 98 = 0$

K $9x^2 + 12x - 1 = 0$

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