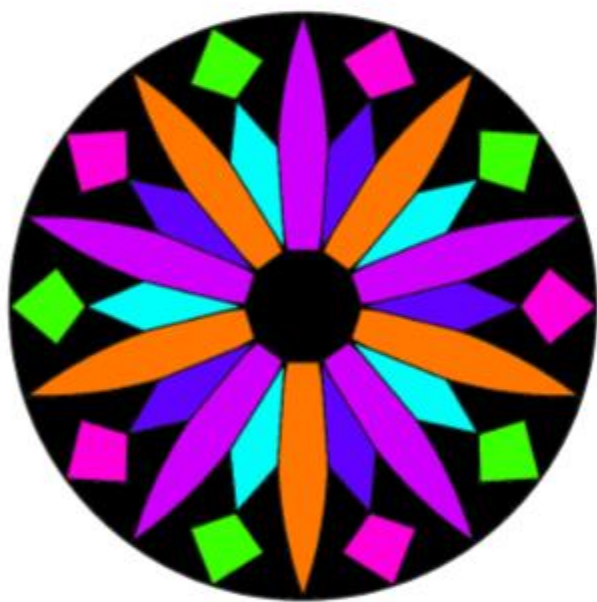


COLOR by NUMBER

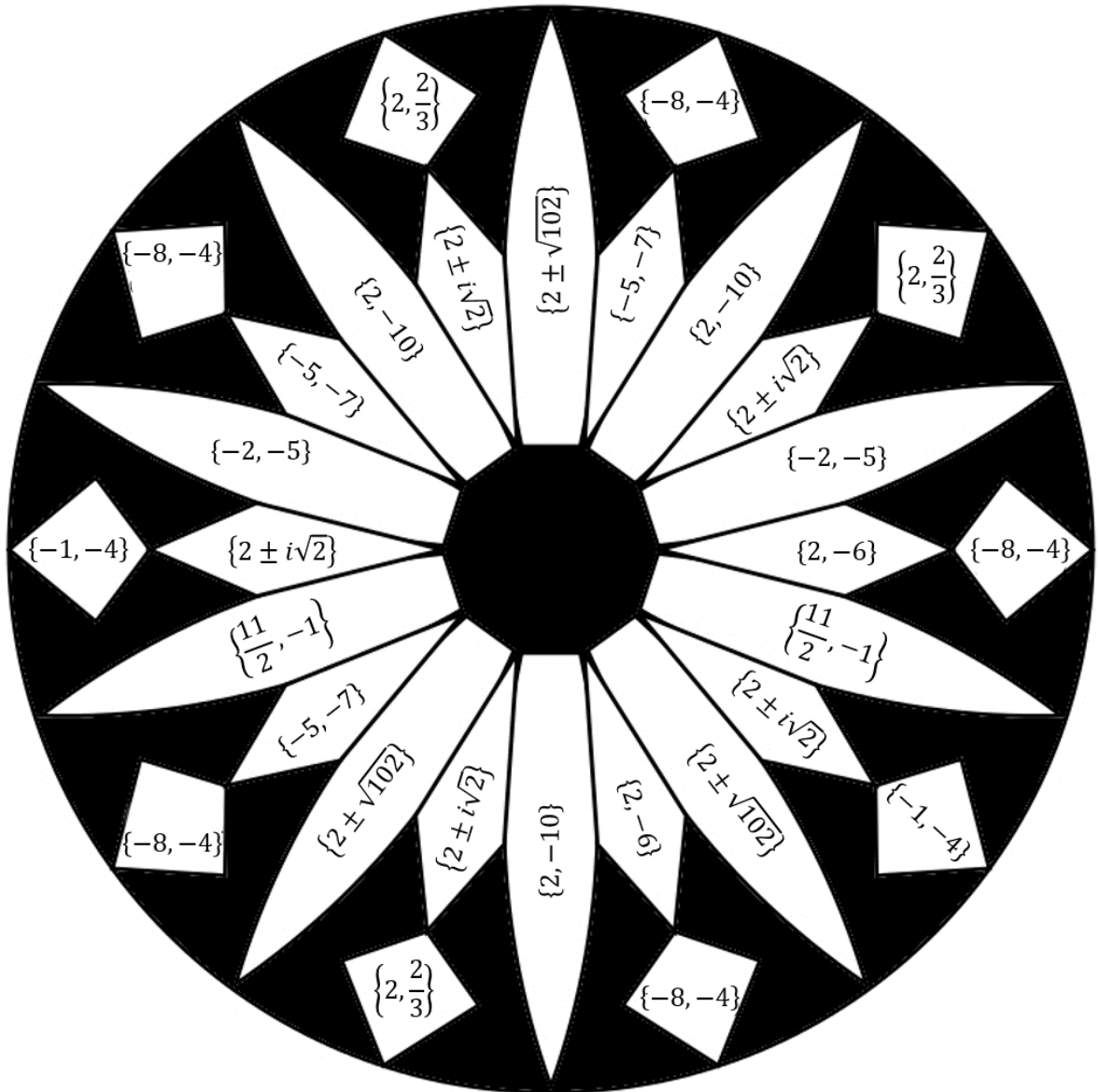


SOLVING Quadratic Equations:
COMPLETING THE SQUARE

Solving Quadratic Equations: Completing the Square Color by Number

Directions: Solve each quadratic equation below by completing the square. Then, color your answer on the picture according to the color indicated. Leave your answers in simplest fraction/radical form. Show your work on a separate sheet of paper.

Quadratic Equation	Roots	Color
1. $x^2 + 8x - 14 = 6$	_____	Orange
2. $x^2 + 5x = -4$	_____	Green
3. $x^2 + 7x + 10 = 0$	_____	Purple
4. $x^2 + 12x + 16 = -19$	_____	Blue
5. $x^2 - 4x - 91 = 7$	_____	Purple
6. $x^2 - 4x + 1 = -5$	_____	Teal
7. $x^2 + 12x = -32$	_____	Pink
8. $10x^2 - 45x - 12 = 43$	_____	Orange
9. $x^2 = 12 - 4x$	_____	Blue
10. $3x^2 = -4 + 8x$	_____	Green



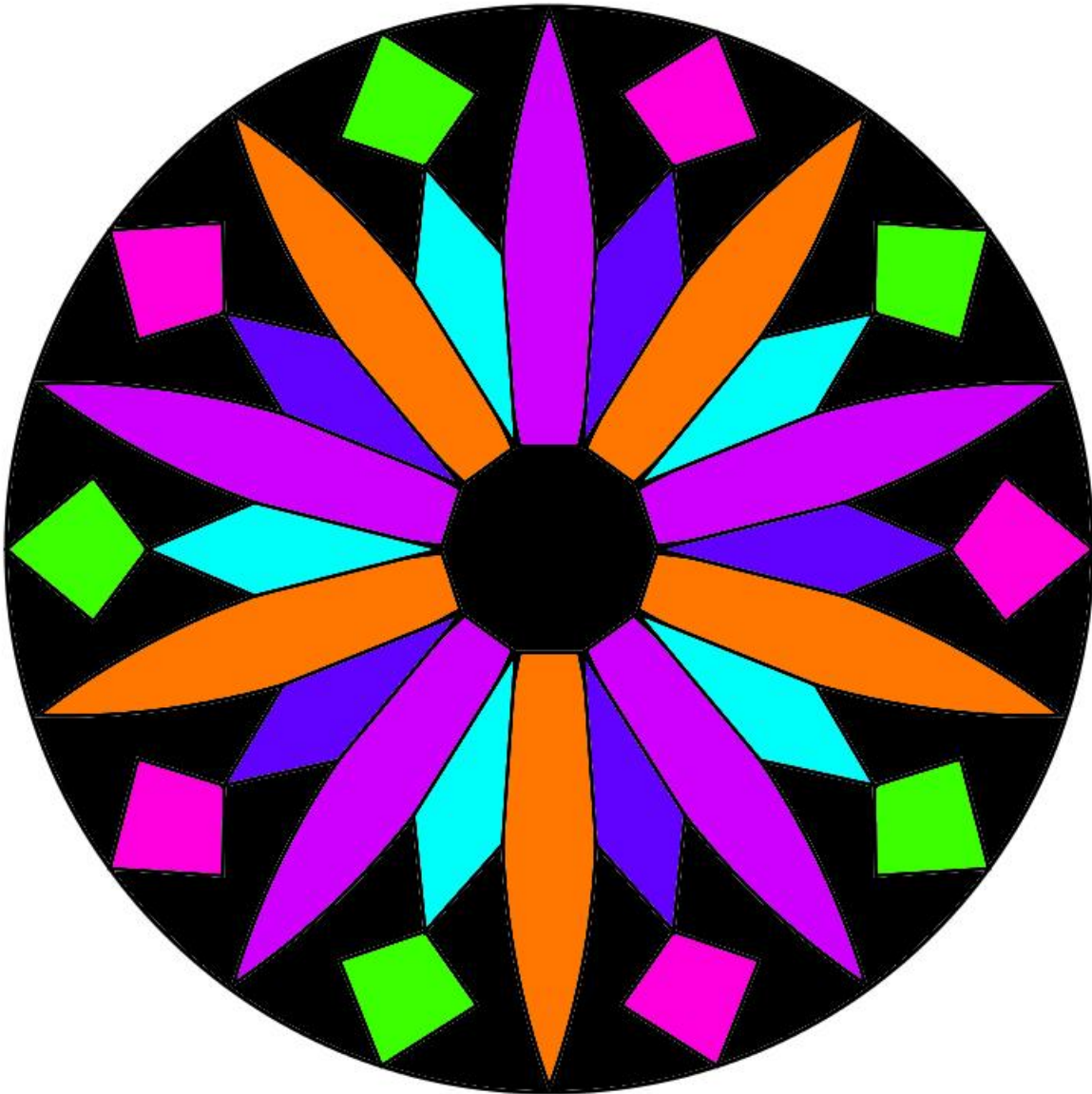
Solving Quadratic Equations: Completing the Square Color by Number

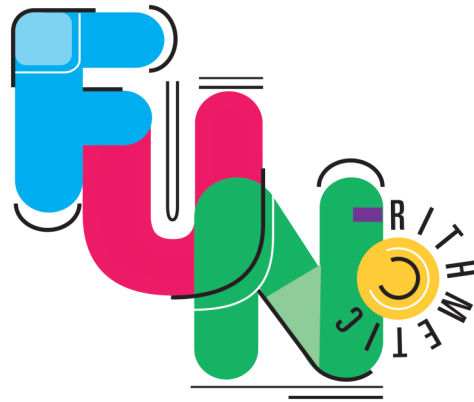
Answer Key

Directions: Solve each quadratic equation below by completing the square. Then, color your answer on the picture according to the color indicated. Leave your answers in simplest fraction/radical form. Show your work on a separate sheet of paper.

Quadratic Equation	Roots	Color
1. $x^2 + 8x - 14 = 6$	$\{2, -10\}$	Orange
2. $x^2 + 5x = -4$	$\{-1, -4\}$	Green
3. $x^2 + 7x + 10 = 0$	$\{-2, -5\}$	Purple
4. $x^2 + 12x + 16 = -19$	$\{-5, -7\}$	Blue
5. $x^2 - 4x - 91 = 7$	$\{2 \pm \sqrt{102}\}$	Purple
6. $x^2 - 4x + 1 = -5$	$\{2 \pm i\sqrt{2}\}$	Teal
7. $x^2 + 12x = -32$	$\{-8, -4\}$	Pink
8. $10x^2 - 45x - 12 = 43$	$\{\frac{11}{2}, -1\}$	Orange
9. $x^2 = 12 - 4x$	$\{2, -6\}$	Blue
10. $3x^2 = -4 + 8x$	$\{2, \frac{2}{3}\}$	Green

Name _____ Date _____





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