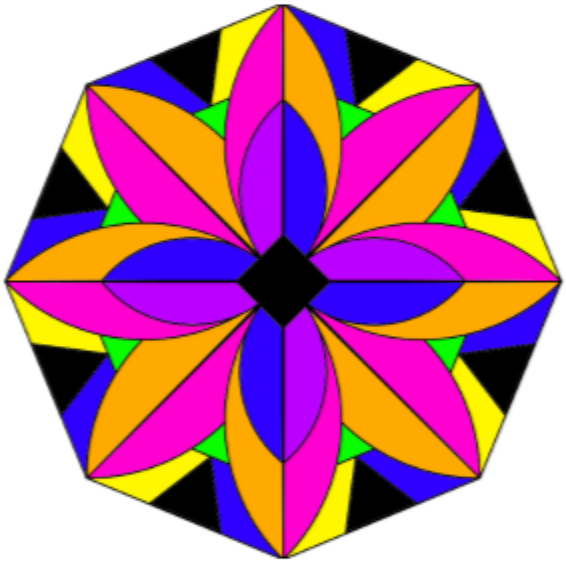
Freebie

Color by Number



Systems of Three Equations

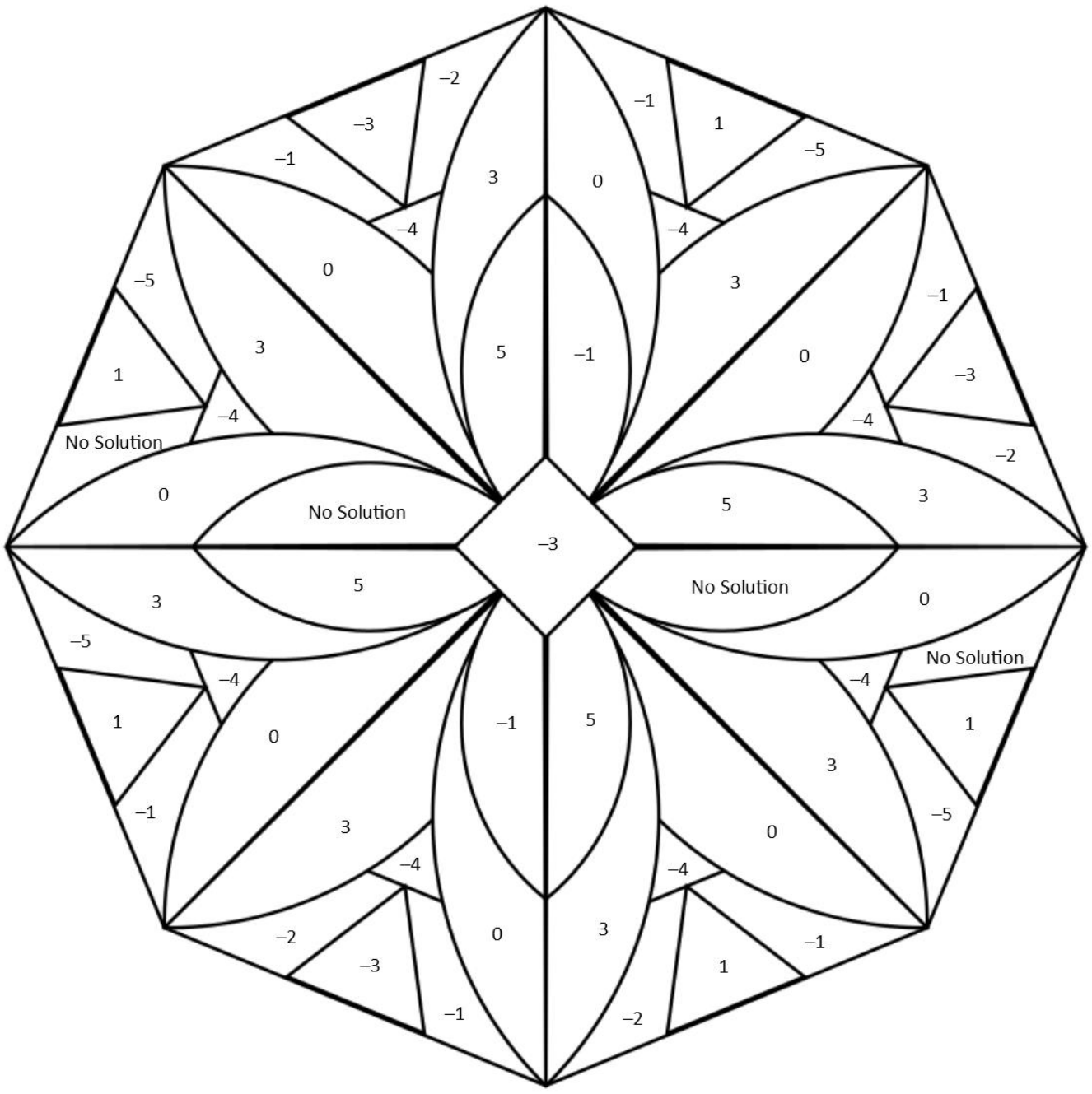
Name_____Date_____

Systems of Three Equations Color by Number

Directions: Solve each system of equations using either elimination or substitution. Then, color the indicated variable of the solution on the picture below according to the color given. Show your work on a separate sheet of paper.

System of Equations	Solution (x, y, z)	Variable	Color
1. $-x - 5y - 5z = 2$ $4x - 5y + 4z = 19$ $x + 5y - z = -20$	_____	x	Yellow
2. $-x - 5y + z = 17$ $-5x - 5y + 5z = 5$ $2x + 5y - 3z = -10$	_____	x	Blue
3. $-x - y - 3z = -9$ $z = -3x - 1$ $x = 5y - z + 23$	_____	y	Green
4. $y = x + z + 5$ $z = -3y - 3$ $2x - y = -4$	_____	y	Orange
5. $4x - 4y + 4z = -4$ $4x + y - 2z = 5$ $-3x - 3y - 4z = -16$	_____	z	Black
6. $-5x - 3y + z = -4$ $-2x - 2y + 2z = 4$ $z = x + 5$	_____	z	Purple
7. $x - y - 2z = -6$ $3x + 2y = -25$ $-4x + y - z = 12$	_____	x	Yellow
8. $5x + 5y + 5z = -20$ $4x + 3y + 3z = -6$ $-4x + 3y + 3z = 9$	_____	x	Blue
9. $3x - 3y = -6$ $z = -3x - 3y + 9$ $-4x + 5y + z = 8$	_____	z	Black
10. $x - 2y + z = -6$ $x + 5z = -12$ $-x + 6y + 4z = 3$	_____	y	Pink

Name_____Date_____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No Solution
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–5
0
–4
–4
–2
0
3
–1
–3
1
–1
–2

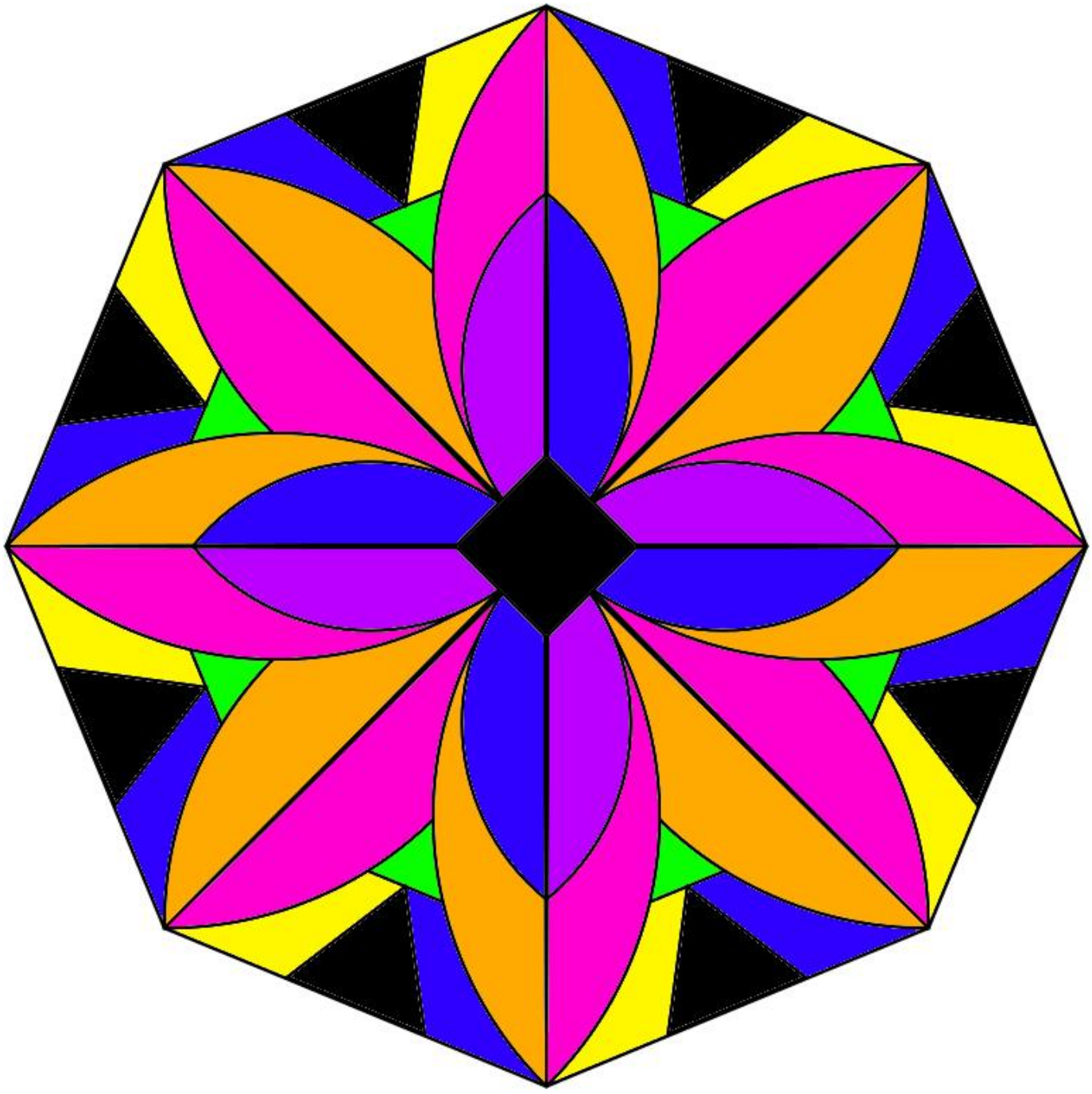
Name_____Date_____

Systems of Three Equations Color by Number—Answer Key

Directions: Solve each system of equations using either elimination or substitution. Then, color the indicated variable of the solution on the picture below according to the color given. Show your work on a separate sheet of paper.

	System of Equations	Solution (x, y, z)	Variable	Color
1.	$-x - 5y - 5z = 2$ $4x - 5y + 4z = 19$ $x + 5y - z = -20$	$(\boxed{-2}, -3, 3)$	x	Yellow
2.	$-x - 5y + z = 17$ $-5x - 5y + 5z = 5$ $2x + 5y - 3z = -10$	$(\boxed{-1}, -4, -4)$	x	Blue
3.	$-x - y - 3z = -9$ $z = -3x - 1$ $x = 5y - z + 23$	$(-2, \boxed{-4}, 5)$	y	Green
4.	$y = x + z + 5$ $z = -3y - 3$ $2x - y = -4$	$(-2, \boxed{0}, -3)$	y	Orange
5.	$4x - 4y + 4z = -4$ $4x + y - 2z = 5$ $-3x - 3y - 4z = -16$	$(1, 3, \boxed{1})$	z	Black
6.	$-5x - 3y + z = -4$ $-2x - 2y + 2z = 4$ $z = x + 5$	$(0, 3, \boxed{5})$	z	Purple
7.	$x - y - 2z = -6$ $3x + 2y = -25$ $-4x + y - z = 12$	$(\boxed{-5}, -5, 3)$	x	Yellow
8.	$5x + 5y + 5z = -20$ $4x + 3y + 3z = -6$ $-4x + 3y + 3z = 9$	No solution	x	Blue
9.	$3x - 3y = -6$ $z = -3x - 3y + 9$ $-4x + 5y + z = 8$	$(1, 3, \boxed{-3})$	z	Black
10.	$x - 2y + z = -6$ $x + 5z = -12$ $-x + 6y + 4z = 3$	$(3, \boxed{3}, -3)$	y	Pink

Name_____Date_____



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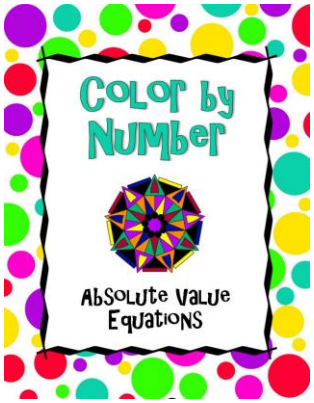

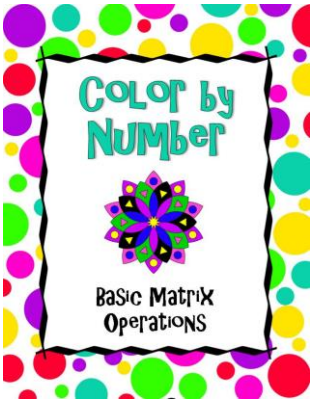

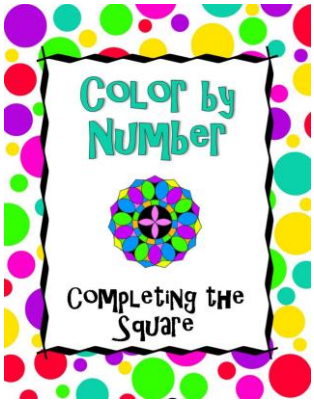

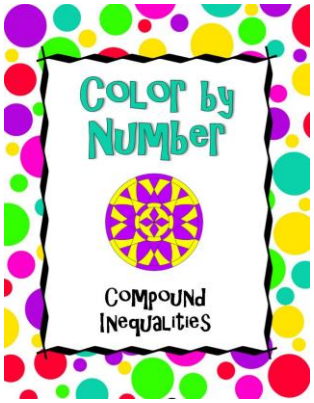

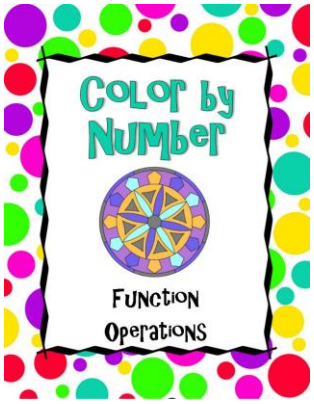

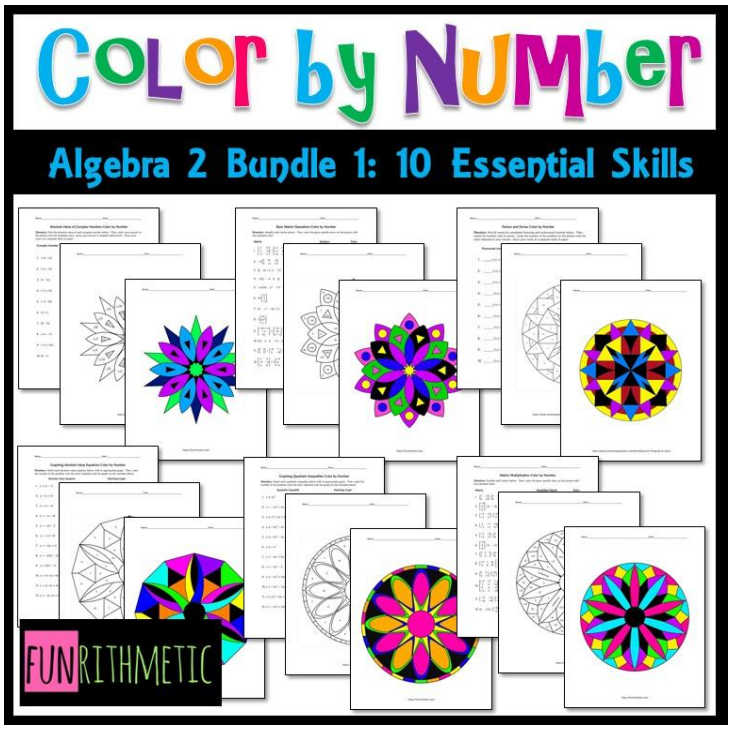

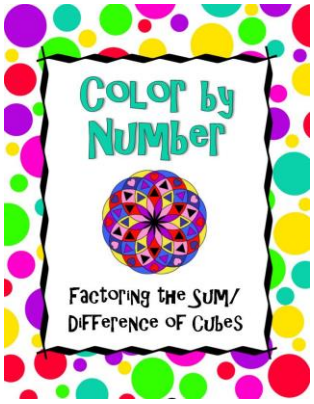

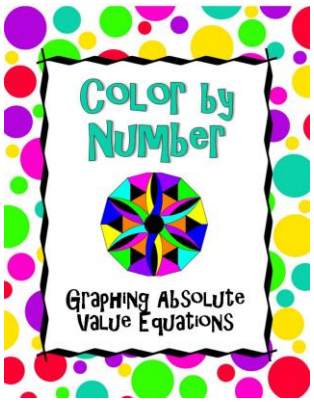

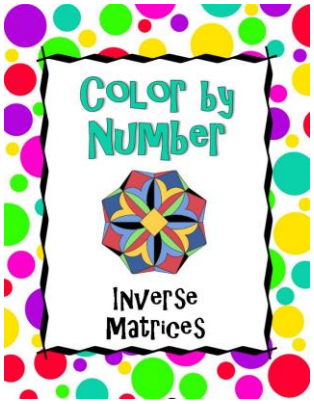

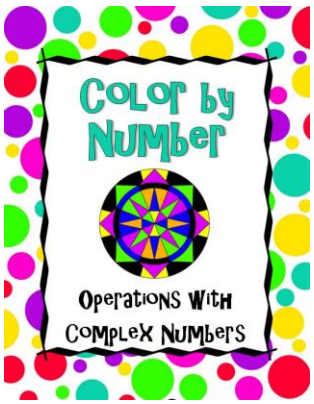

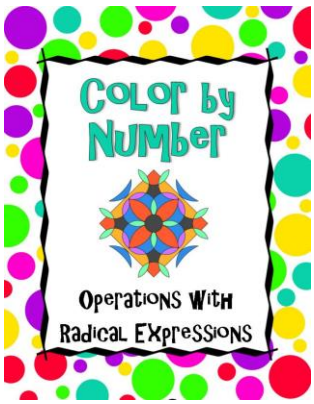

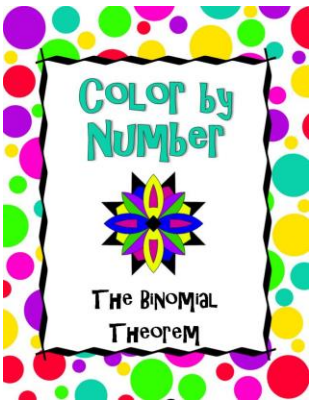

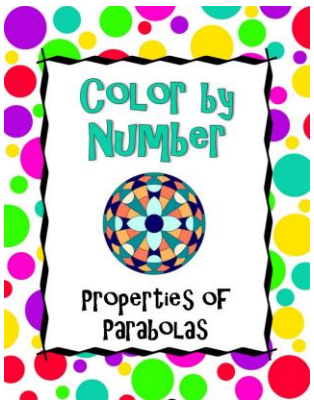

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