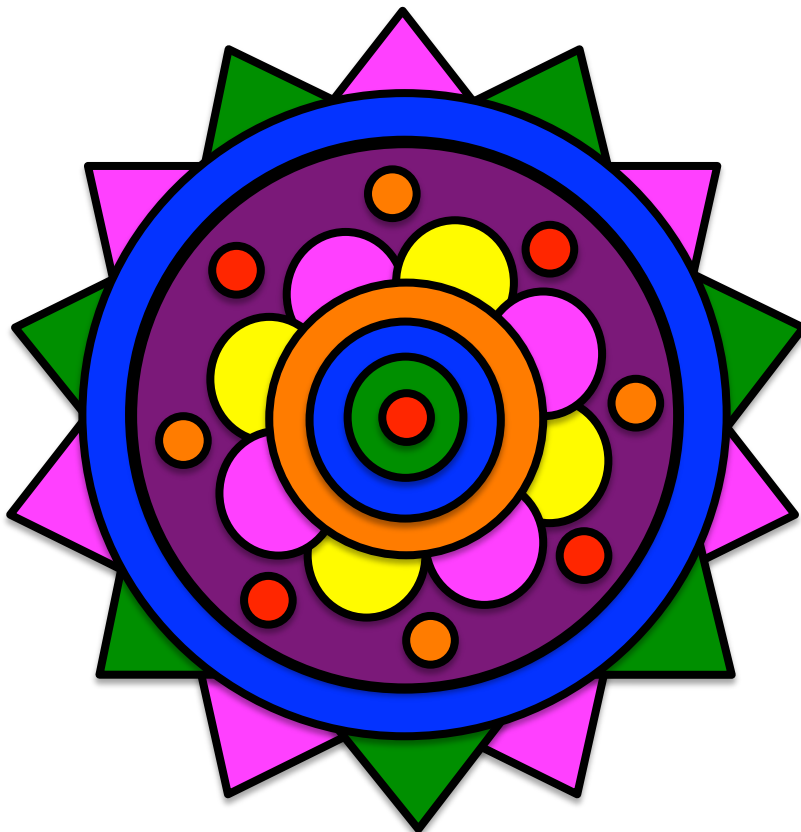


**Color by Number
Systems of Equations**



Activities by Jill 2013

Color by Number Systems of Equations

Name _____

Solve each system of equations and show all work clearly in the space provided. Then color the corresponding area on the coloring page.

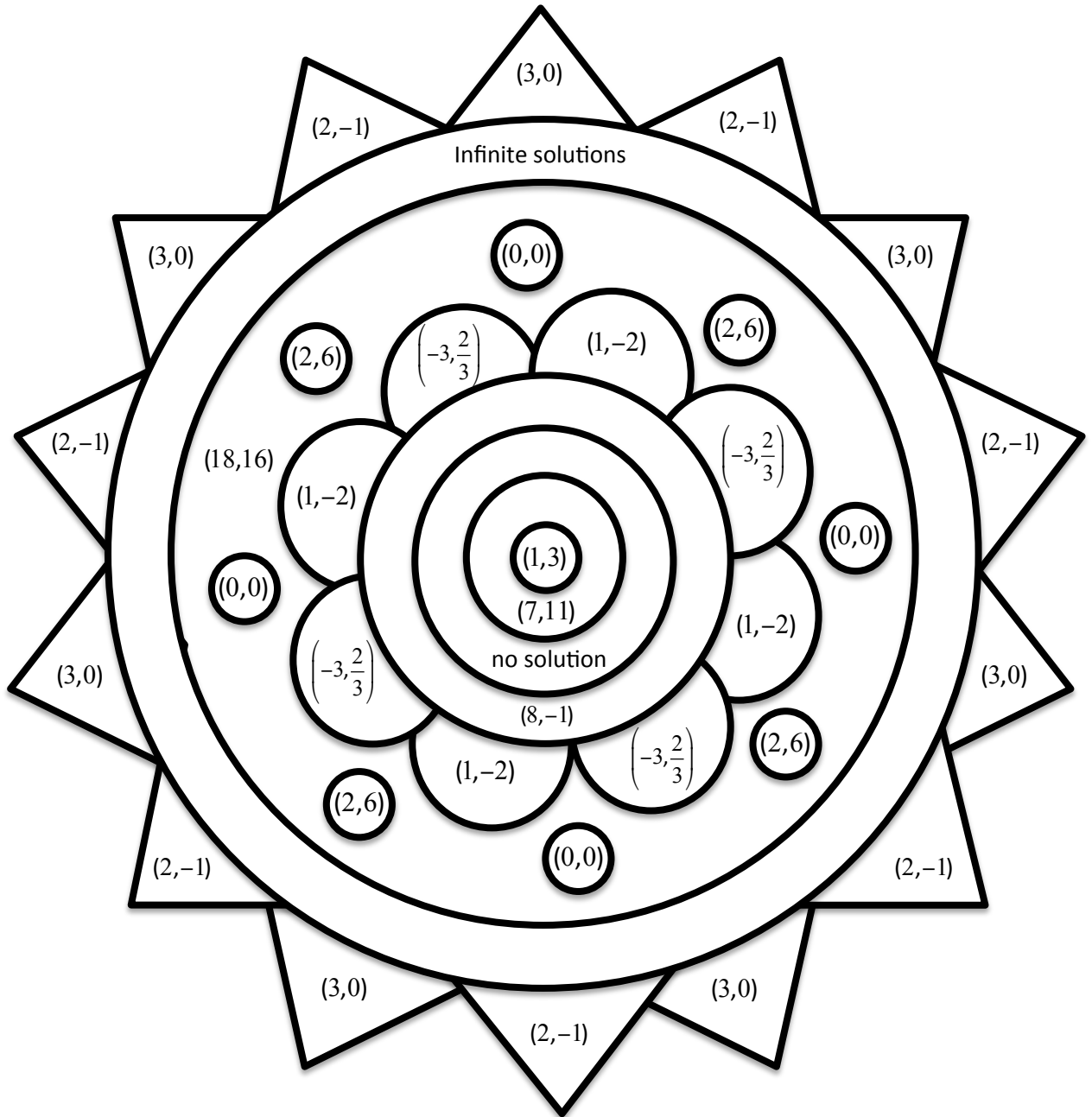
<p>1. $y = 3x$ $y = x + 4$</p> <p style="text-align: right;">Red</p>	<p>2. $3x - y = 10$ $y = x + 4$</p> <p style="text-align: right;">Green</p>
<p>3. $2x + 3y = 8$ $\frac{3}{2}y + x = 4$</p> <p style="text-align: right;">Blue</p>	<p>4. $2x + 4y = -6$ $x - 3y = 7$</p> <p style="text-align: right;">Yellow</p>
<p>5. $20 = 2x - y$ $x + y = 34$</p> <p style="text-align: right;">Purple</p>	<p>6. $x + 2y = 7$ $3x - 2y = -3$</p> <p style="text-align: right;">Red</p>

Objective: Students will solve systems of equations.

<p>7. $x = -2y$ $2x + 5y = -1$</p> <p style="text-align: right;">Green</p>	<p>8. $3x - 8y = 32$ $-x + 8y = -16$</p> <p style="text-align: right;">Orange</p>
<p>9. $-x + 3y = 5$ $-3y = 1 + x$</p> <p style="text-align: right;">Pink</p>	<p>10. $y = \frac{2}{3}x + 4$ $2x - 3y = 3$</p> <p style="text-align: right;">Blue</p>
<p>11. $0 = 4y$ $3x + \frac{5}{6}y = 9$</p> <p style="text-align: right;">Pink</p>	<p>12. $y = 4x$ $-y = 3x$</p> <p style="text-align: right;">Orange</p>

Activities by Jill 2013

Objective: Students will solve systems of equations.



Color by Number Systems of Equations

Name _____

Solve each system of equations and show all work clearly in the space provided. Then color the corresponding area on the coloring page.

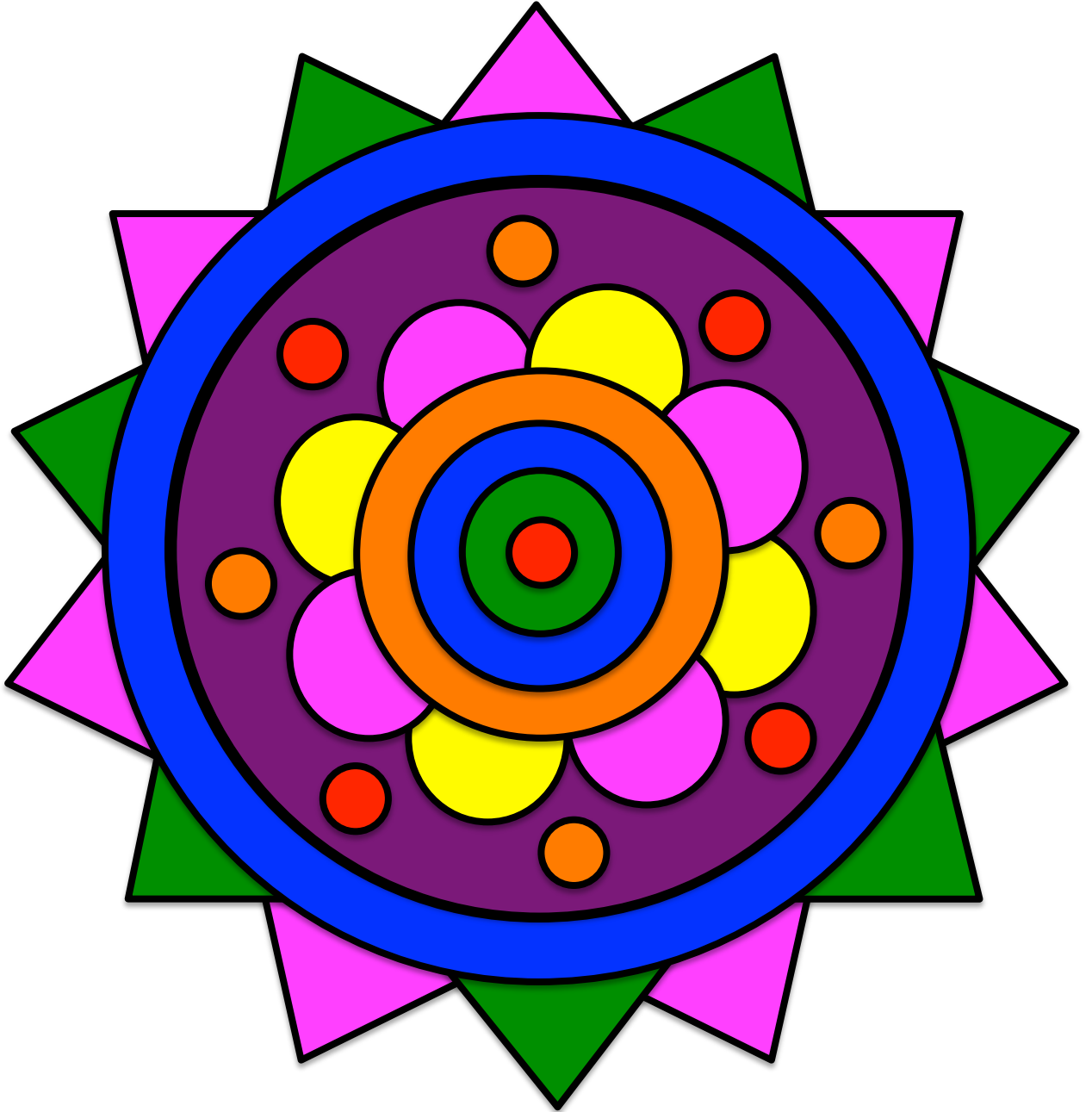
<p>1. $y = 3x$ $y = x + 4$</p> <p style="text-align: right;"> $3x = x + 4$ $2x = 4$ $x = 2$ $y = 6$ (2,6) </p> <p style="text-align: right;">Red</p>	<p>2. $3x - y = 10$ $y = x + 4$</p> <p style="text-align: right;"> $3x - (x + 4) = 10$ $3x - x - 4 = 10$ $2x - 4 = 10$ $2x = 14$ $x = 7$ $y = 11$ (7,11) </p> <p style="text-align: right;">Green</p>
<p>3. $2x + 3y = 8$ $\frac{3}{2}y + x = 4$</p> <p style="text-align: right;"> $x = 4 - \frac{3}{2}y$ $2\left(4 - \frac{3}{2}y\right) + 3y = 8$ $8 - 3y + 3y = 8$ $8 = 8$ infinite solutions </p> <p style="text-align: right;">Blue</p>	<p>4. $2x + 4y = -6$ $x - 3y = 7$</p> <p style="text-align: right;"> $x = 7 + 3y$ $2(7 + 3y) + 4y = -6$ $14 + 6y + 4y = -6$ $10y + 14 = -6$ $10y = -20$ $y = -2$ $x = 1$ (1,-2) </p> <p style="text-align: right;">Yellow</p>
<p>5. $20 = 2x - y$ $x + y = 34$</p> <p style="text-align: right;"> $x = 34 - y$ $20 = 2(34 - y) - y$ $20 = 68 - 2y - y$ $20 = 68 - 3y$ $-48 = -3y$ $y = 16$ $x = 18$ (18,16) </p> <p style="text-align: right;">Purple</p>	<p>6. $x + 2y = 7$ $3x - 2y = -3$</p> <p style="text-align: right;"> $x = 7 - 2y$ $3(7 - 2y) - 2y = -3$ $21 - 6y - 2y = -3$ $21 - 8y = -3$ $-8y = -24$ $y = 3$ $x = 1$ (1,3) </p> <p style="text-align: right;">Red</p>

Objective: Students will solve systems of equations.

<p>7. $x = -2y$ $2(-2y) + 5y = -1$ $2x + 5y = -1$ $-4y + 5y = -1$ $y = -1$ $x = 2$ (2, -1)</p> <p style="text-align: right;">Green</p>	<p>8. $3x - 8y = 32$ $-x = -16 - 8y$ $x = 16 + 8y$ $-x + 8y = -16$ $3(16 + 8y) - 8y = 32$ $48 + 24y - 8y = 32$ $48 + 16y = 32$ $16y = -16$ $y = -1$ $x = 8$ (8, -1)</p> <p style="text-align: right;">Orange</p>
<p>9. $-x + 3y = 5$ $-3y - 1 = x$ $-3y = 1 + x$ $-(-3y - 1) + 3y = 5$ $3y + 1 + 3y = 5$ $6y + 1 = 5$ $6y = 4$ $y = \frac{2}{3}$ $x = -3$ $(-3, \frac{2}{3})$</p> <p style="text-align: right;">Pink</p>	<p>10. $y = \frac{2}{3}x + 4$ $2x - 3(\frac{2}{3}x + 4) = 3$ $2x - 3y = 3$ $2x - 2x - 12 = 3$ $-12 \neq 3$ No Solution</p> <p style="text-align: right;">Blue</p>
<p>11. $0 = 4y$ $0 = y$ $3x + \frac{5}{6}y = 9$ $3x + \frac{5}{6}(0) = 9$ $3x = 9$ $x = 3$ $y = 0$ (3, 0)</p> <p style="text-align: right;">Pink</p>	<p>12. $y = 4x$ $-(4x) = 3x$ $-y = 3x$ $-4x = 3x$ $-7x = 0$ $x = 0$ $y = 0$ (0, 0)</p> <p style="text-align: right;">Orange</p>

Activities by Jill 2013

Objective: Students will solve systems of equations.



**Thank you for
downloading this
lesson!**

**Positive feedback is
always appreciated.
Please consider returning
to my website and rating
this product.**

Activities by Jill 2013

<http://www.teacherspayteachers.com/Store/Jill-Powers>