

Name: _____

Date: _____ Per. _____

Absolute Value Equations - Line Puzzle

Directions: Solve each equation and match it with the answers on the right by connecting them with a straight line. If a line goes through a number and a letter, put the letter in the numbered box below and watch the answer to the riddle appear!

Have you heard about the book on anti-gravity?

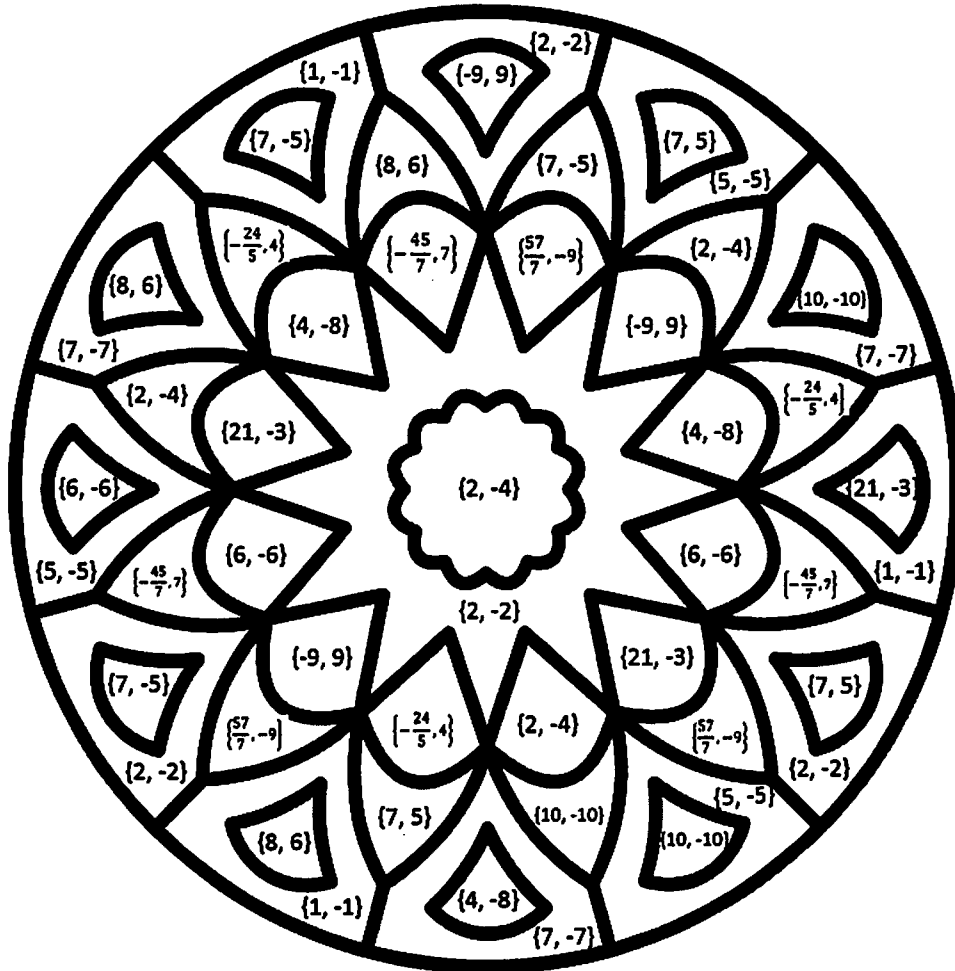
- | | | | |
|-----------------------------------------|---|----|-----------------|
| 1) $\left \frac{x}{10}\right = 3$ | ♦ | | ♦ $\{-7, -9\}$ |
| 2) $ 2 + x = 12$ | ♦ | 6 | ♦ $\{10, -14\}$ |
| 3) $ x + 10 = 10$ | ♦ | | ♦ $\{11, -11\}$ |
| 4) $\left \frac{x}{2}\right = 3$ | ♦ | 13 | ♦ $\{30, -30\}$ |
| 5) $ 3x = 24$ | ♦ | T | ♦ $\{4, -4\}$ |
| 6) $ x + 8 = 1$ | ♦ | | ♦ $\{8, -8\}$ |
| 7) $ x - 4 = -3$ | ♦ | D | ♦ $\{0, -20\}$ |
| 8) $4 + x = 13$ | ♦ | 0 | ♦ $\{5, -7\}$ |
| 9) $ x - 5 = -1$ | ♦ | | ♦ $\{9, -9\}$ |
| 10) $6 x = 12$ | ♦ | | ♦ $\{6, -6\}$ |
| 11) $\frac{ x }{7} = 1$ | ♦ | | ♦ $\{2, -2\}$ |
| 12) $-6 x = -66$ | ♦ | | ♦ $\{1, -1\}$ |
| 13) $\left \frac{x}{3}\right - 5 = -4$ | ♦ | | ♦ $\{3, -3\}$ |
| 14) $6 x + 1 = 36$ | ♦ | | ♦ $\{7, -7\}$ |

1)	2)	3)	4)	5)	6)	7)	8)	9)	10)	11)	12)	13)	14)
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Name: _____

Color by Number: Absolute Value Equations

Directions: Solve each absolute value equations below on a separate piece of paper. The answers to each problem are inside the picture. Color the picture using the colors given for each column of problems.



Color: _____

1) $|\frac{x}{2}| = 3$

2) $|x + 2| = 6$

3) $|x - 9| = 12$

4) $|-9n| = 81$

color: _____

5) $9|k| = 45$

6) $3 + |r| = 10$

7) $-9|b| = -9$

8) $-7|n| = -14$

color: _____

9) $-10|k - 7| = -10$

10) $-5|n - 1| = -30$

11) $|x - 6| - 2 = -1$

12) $|\frac{x}{2}| + 1 = 6$

color: _____

13) $|-5a - 2| - 9 = 13$

14) $|3 + 3n| + 3 = 12$

15) $-10 + |2 - 7k| = 37$

16) $2|3 + 7a| = 120$