

# Solve Quadratic Equation by Factoring MAZE

(LEVEL 1)

**Directions:** Solve each equation by factoring. Use your answer to navigate through the maze. Show your work.

**START**  
 $(x + 5)(x + 1) = 0$

**A** {5, 1} **B**  $\{-8, -\frac{1}{8}\}$  **C** {4, 2} **D**

{-5, -1}  $\{5, \frac{3}{2}\}$   $\{-8, \frac{1}{8}\}$   $\{8, -\frac{1}{8}\}$  {-4, -2}  $\{7, \frac{1}{8}\}$   $\{-7, \frac{1}{8}\}$

$(2x - 5)(x - 3) = 0$   $-4x(x - 6) = 0$   $(x - 2)^2 = 0$   $x(4x - 3) = 0$

**E**  $\{-\frac{5}{2}, 3\}$  **F** {-2} **G**  $\{-\frac{3}{4}, 0\}$  **H**

$\{\frac{5}{2}, -3\}$  {6, 0} {-4, 6}  $\{-3, -2\}$  {2}  $\{\frac{3}{4}, 0\}$   $\{\frac{3}{4}\}$

$(x - 6)(3x - 1) = 0$   $-3x(x + 7) = 0$   $-6(x + 3)(x + 2) = 0$   $(x - 8)(x - 6) = 0$

**I**  $\{-6, -\frac{1}{3}\}$  **J** {3, -7} **K** {-8, -6} **L**

$\{6, \frac{1}{3}\}$   $\{5, -2\}$   $\{\frac{7}{6}, \frac{4}{7}\}$  {0, -7} {3, 2}  $\{8, -6\}$  {8, 6}


$2(x - 5)^2 = 0$   $2(6x + 7)(7x - 4) = 0$   $(x - 6)^2 = 0$   $3(2x - 5)(8x - 5) = 0$

**M** {5, 0} **N**  $\{\frac{7}{6}, -\frac{4}{7}\}$  **O** {6} **P**

{5}  $\{6, 8\}$  {-5}  $\{2, 7\}$  {-2, -7}  $\{2, -7\}$   $\{\frac{5}{2}, \frac{5}{8}\}$

$(x + 6)(x + 8) = 0$   $x(x + 5) = 0$   $-8(x - 2)(x - 7) = 0$

**Q** {-6, -8} **R** {-5, 0} **S** {-2, 7}

**Good Job!**  
  
**The End**

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**START**  
 $(x + 5)(x + 1) = 0$

6(x + 8)(8x + 1) = 0

$(x - 4)(x - 2) = 0$

$(x + 7)(8x - 1) = 0$

{5, 1}

{-8, -1/8}

{4, 2}

{-5, -1}

{5, 2/3}

{-8, 1/8}

{8, -8/1}

{-4, -2}

{7, 1/8}

{-7, 1/8}

$(2x - 5)(x - 3) = 0$

$-4x(x - 6) = 0$

$(x - 2)^2 = 0$

$x(4x - 3) = 0$

{-5/2, 3}

{-2}

{-3/4, 0}

{5/2, -3}

{6, 0}

{-4, 6}

{-3, -2}

{2}

{3, 4/0}

{3/4}

$(x - 6)(3x - 1) = 0$

$-3x(x + 7) = 0$

$-6(x + 3)(x + 2) = 0$

$(x - 8)(x - 6) = 0$

{-6, -1/3}

{3, -7}

{-8, -6}

{6, 1/3}

{5, -2}

{7, 4/6/7}

{0, -7}

{3, 2}

{8, -6}

{8, 6}

$2(x - 5)^2 = 0$

$2(6x + 7)(7x - 4) = 0$

$(x - 6)^2 = 0$

$3(2x - 5)(8x - 5) = 0$

{5, 0}

{7/6, -4/7}

{6}

{5}

{6, 8}

{-5}

{2, 7}

{-2, -7}

{2, -7}

{5/2, 5/2/8}

$(x + 6)(x + 8) = 0$

$x(x + 5) = 0$

$-8(x - 2)(x - 7) = 0$

{-6, -8}

{-5, 0}

{-2, 7}

**Good Job!**

**The End**

# RECORDING SHEET

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