

## A P.I. R<sup>2</sup> Mini-Mystery

### Who Killed Ms. X?

**Directions:** Solve each equation below, then use your solutions to eliminate the suspects and solve the mystery.

- |  |   |
|--|---|
| <p>1. <math>7 + 5(x - 2) = 12</math></p> <p>3. <math>7x + 3(4x - 8) = 109</math></p> <p>5. <math>-4x - 7(-3x - 6) = 195</math></p> <p>7. <math>8(x + 5) + 4 = 60</math></p> <p>9. <math>-6x + 5(-2x - 11) = 137</math></p> <p>11. <math>7(x - 5) - 2 = -100</math></p> <p>13. <math>4 - 2(x + 19) = 50</math></p> <p>15. <math>-5x + 3(-4x - 11) = 137</math></p> <p>17. <math>5 - 3(x - 7) = 32</math></p> <p>19. <math>2x - 2(-3x + 3) = 58</math></p> | <p>2. <math>4(x - 12) + 19 = -89</math></p> <p>4. <math>-4x - 2(2x + 10) = -116</math></p> <p>6. <math>2(x + 9) - 4 = 68</math></p> <p>8. <math>6 + 5(x - 7) = 71</math></p> <p>10. <math>-3x - 5(-3x - 9) = -51</math></p> <p>12. <math>7(x - 3) - 14 = 70</math></p> <p>14. <math>2x + 6(5x - 5) = 130</math></p> <p>16. <math>2(x + 9) - 15 = -3</math></p> <p>18. <math>3 - 3(x - 5) = 60</math></p> <p>20. <math>5x - 3(-6x + 5) = -130</math></p> |
|--|---|

<b>WHO?</b>
<input type="checkbox"/> Mr. Jones
<input type="checkbox"/> Mr. Brown
<input type="checkbox"/> Mr. Patrick
<input type="checkbox"/> Ms. Manns
<input type="checkbox"/> Mrs. Wright
<input type="checkbox"/> Ms. Davis
<b>WHAT?</b>
<input type="checkbox"/> Crowbar
<input type="checkbox"/> Pistol
<input type="checkbox"/> Poison
<input type="checkbox"/> Knife
<input type="checkbox"/> Rope
<input type="checkbox"/> Vase
<b>WHERE?</b>
<input type="checkbox"/> Dining Room
<input type="checkbox"/> Game Room
<input type="checkbox"/> Office
<input type="checkbox"/> Kitchen
<input type="checkbox"/> Bedroom
<input type="checkbox"/> Garage
<input type="checkbox"/> Cellar
<input type="checkbox"/> Library
<input type="checkbox"/> Hall
<input type="checkbox"/> Balcony
<input type="checkbox"/> Garden

IT WAS (WHO)	WITH A (WHAT)	IN THE (WHERE)
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WHO?	
<input type="checkbox"/> Mr. Jones	$x = 14$
<input type="checkbox"/> Mr. Brown	$x = -5$
<input type="checkbox"/> Mr. Patrick	$x = 20$
<input type="checkbox"/> Ms. Manns	$x = 8$
<input type="checkbox"/> Mrs. Wright	$x = 7$
<input type="checkbox"/> Ms. Davis	$x = 12$
WHAT?	
<input type="checkbox"/> Crowbar	$x = -3$
<input type="checkbox"/> Pistol	$x = 27$
<input type="checkbox"/> Poison	$x = -2$
<input type="checkbox"/> Knife	$x = 10$
<input type="checkbox"/> Rope	$x = 15$
<input type="checkbox"/> Vase	$x = 9$
WHERE?	
<input type="checkbox"/> Dining Room	$x = 3$
<input type="checkbox"/> Game Room	$x = 2$
<input type="checkbox"/> Office	$x = -14$
<input type="checkbox"/> Kitchen	$x = -27$
<input type="checkbox"/> Bedroom	$x = -15$
<input type="checkbox"/> Garage	$x = -9$
<input type="checkbox"/> Cellar	$x = -12$
<input type="checkbox"/> Library	$x = -42$
<input type="checkbox"/> Hall	$x = -8$
<input type="checkbox"/> Balcony	$x = -10$
<input type="checkbox"/> Garden	$x = 5$

IT WAS (WHO)	WITH A (WHAT)	IN THE (WHERE)
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