

# Polynomials Make A Match Record Sheet **ANSWER KEY**

After you have filled in your table, check your answers here.

<b>1</b>	$2y + 4x > 16$	<b>D</b> $y > -2x + 8$
<b>2</b>	$3x - 4y \leq 12$	<b>J</b> $y \geq \frac{3}{4}x - 3$
<b>3</b>	$x - 4 > 2y$	<b>E</b> $y < \frac{1}{2}x - 2$
<b>4</b>	$-2x + y = -5$	<b>A</b> $y = 2x - 5$
<b>5</b>	$y = \frac{1}{2}x + 4$	<b>P</b> $-x + 2y = 8$
<b>6</b>	$\frac{1}{2}y = 3x - 3$	<b>H</b> $y = 6x - 6$
<b>7</b>	$x - 5y = 20$	<b>B</b> $y = \frac{1}{5}x - 4$
<b>8</b>	$y + 1 = 3(x - 2)$	<b>O</b> $y = 3x - 7$
<b>9</b>	$y - 3 = 2(x + 2)$	<b>K</b> $y = 2x + 7$

10	$x(3x-13) = 10$	F $3x^2 - 13x - 10 = 0$
11	$3(x - 2)(x - 4) = 0$	C $3x^2 - 18x + 24 = 0$
12	<i>After a ball is dropped, the rebound height of each bounce decreases. The equation <math>y = 5(0.8)^x</math> shows the relationship between <math>x</math>, the number of bounces, and <math>y</math>, the height of the bounce, for a certain ball. What is the approximate height of the third bounce of this ball to the nearest tenth of a unit?</i>	Q 6.0
13	<i>The perimeter of a rectangle is <math>(10y + 18)</math> units. If the width of one side of the rectangle is <math>(2y + 3)</math> units, what is the value of the length?</i>	L $3y + 6$
14	<i>The area of a rectangle is <math>2y^2 + 19y + 24</math> units squared. If the length of one side of the rectangle is <math>(2y + 3)</math> units, what is the dimension of the other side of the rectangle?</i>	N $y + 8$
15	<i>If the function <math>y = x^2 + 12x + 11</math> has one zero = -11, what is the value of the other zero?</i>	I $x = -1$
16	<i>A rectangle has a length of <math>3x + 1</math> and a width of <math>5x - 2</math>. Which expression best describes the area of the rectangle?</i>	G $15x^2 - x - 2$ units squared
17	<i>A rectangle has a length of <math>5x - 3</math> and a width of <math>3x + 4</math>. Which expression best describes the area of the rectangle?</i>	M $15x^2 + 11x - 12$ units squared