

# Match-Up

# Simplifying Algebraic Fractions

Simplify each of the algebraic fractions then find matching threes of equivalent fractions

<b>1</b>	$\frac{x(x + 1)}{(x + 1)(x + 2)}$
<b>2</b>	$\frac{2x^2 + 4x}{10x}$
<b>3</b>	$\frac{(x - 1)(x + 9)}{(x + 9)(x + 4)}$
<b>4</b>	$\frac{x^2 + 2x}{x^2 - x}$
<b>5</b>	$\frac{3x + 9}{6x + 3}$
<b>6</b>	$\frac{5x(3x + 2)}{5x^2 - 25x}$
<b>7</b>	$\frac{4x^3}{2x^3 - 14x^2}$
<b>8</b>	$\frac{2x^2 - x}{5x^2 + x}$
<b>9</b>	$\frac{2 - 4x}{8 - 2x}$
<b>10</b>	$\frac{(3x + 1)(x + 9)}{(x - 1)(3x + 1)}$

<b>A</b>	$\frac{x^2 + 6x + 8}{(x + 4)(x - 1)}$
<b>B</b>	$\frac{3x^2 - x - 2}{(x - 5)(x - 1)}$
<b>C</b>	$\frac{2x^2 - 9x + 4}{(x - 4)^2}$
<b>D</b>	$\frac{x^2}{x^2 + 2x}$
<b>E</b>	$\frac{(x + 2)(2x - 1)}{5x^2 + 11x + 2}$
<b>F</b>	$\frac{2x(2x + 1)}{(2x + 1)(x - 7)}$
<b>G</b>	$\frac{x^2 - 1}{(x + 1)(x + 4)}$
<b>H</b>	$\frac{x^2 + 8x - 9}{x^2 - 2x + 1}$
<b>I</b>	$\frac{2x(x + 3)}{4x^2 + 2x}$
<b>J</b>	$\frac{(x - 3)(x + 2)}{5x - 15}$

<b>a</b>	$\frac{10x^2 + 2x}{(5x + 1)(x - 7)}$
<b>b</b>	$\frac{2x^2 + 5x + 2}{10x + 5}$
<b>c</b>	$\frac{x^3 + 11x^2 + 18x}{x^3 + x^2 - 2x}$
<b>d</b>	$\frac{x^2 - 4x - 21}{2x^2 - 13x - 7}$
<b>e</b>	$\frac{x^2 - 3x}{x^2 - x - 6}$
<b>f</b>	$\frac{4x^2 - 1}{10x^2 + 7x + 1}$
<b>g</b>	$\frac{3x^2 + 17x + 10}{x^2 - 25}$
<b>h</b>	$\frac{x^2 - 3x - 10}{x^2 - 6x + 5}$
<b>i</b>	$\frac{10x^2 + x - 3}{5x^2 - 17x - 12}$
<b>j</b>	$\frac{x^2 + 2x - 3}{x^2 + 7x + 12}$

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
<b>D</b>	<b>J</b>	<b>G</b>	<b>A</b>	<b>I</b>	<b>B</b>	<b>F</b>	<b>E</b>	<b>C</b>	<b>H</b>
<b>e</b>	<b>b</b>	<b>j</b>	<b>h</b>	<b>d</b>	<b>g</b>	<b>a</b>	<b>f</b>	<b>i</b>	<b>c</b>