

**ANSWER KEY**  
**“RATIONAL EXPRESSIONS WITH PERIMETER”**

1.  $\frac{2(x^2 + 11x + 15)}{(x+5)(x+8)}, x \neq -5, x \neq -8$

2.  $\frac{2(5a^2 + 32a - 7)}{(a+5)(a-5)(a-1)}, a \neq -5, a \neq 1, a \neq 5$

3.  $\frac{2x^2 - x - 18}{(x-2)(x-5)(x+1)}, x \neq 5, x \neq 2, x \neq -1$

4.  $\frac{-7a^2 - 18a}{2(a+2)(a-5)}, a \neq 5, a \neq -2$

5.  $\frac{4x^2 - 13x + 25}{x(3x+1)(2x-5)}, x \neq 0, a \neq -\frac{1}{3}, x \neq \frac{5}{2}$