

Name \_\_\_\_\_ Date \_\_\_\_\_ Pd \_\_\_\_\_

### 7.4 Adding & Subtracting Rational Expressions with Unlike Denominators DAY TWO CYU

Use when you get it right all by yourself

**S** Use when you did it all by yourself, but made a silly mistake

**H** Use when you could do it alone with a little help from teacher or peer

**G** Use when you completed the problem in a group

**X** Use when a question was attempted but wrong (get help)

**N** Use when a question was not even attempted

| CONCEPTS                                     | BASIC | INTERMEDIATE | ADVANCED |
|--|-------|--------------|----------|
| Stating the LCD                              |       | 1 - 6        | 7 - 14   |
| Restricting the domain                       |       | 1 - 6        | 7 - 14   |
| Adding or Subtracting Rational Expressions   |       | 1 - 6        | 7 - 14   |
| Multiplying or Dividing Rational Expressions |       | 15, 16       |          |

Perform the indicated operation. State your LCD, restrict your domain, and show all work for full credit. Simplify completely.

1.  $\frac{1}{x+3} - \frac{1}{(x+3)^2}$

2.  $\frac{4}{5b} + \frac{1}{b-1}$

3.  $\frac{2}{m} + 1$

4.  $\frac{2x}{x-7} - \frac{x}{x-2}$

5.  $\frac{6}{1-2x} - \frac{4}{2x-1}$

6.  $\frac{7}{(x+1)(x-1)} + \frac{8}{(x+1)^2}$

7.  $\frac{x}{x^2-1} - \frac{2}{x^2-2x+1}$

8.  $\frac{3a}{2a+6} - \frac{a-1}{a+3}$

$$9. \frac{y-1}{2y+3} + \frac{3}{(2y+3)^2}$$

$$10. \frac{5}{2-x} + \frac{x}{2x-4}$$

$$11. \frac{-1}{a-2} + \frac{4}{4-2a}$$

$$12. \frac{15}{x^2+6x+9} + \frac{2}{x+3}$$

$$13. \frac{13}{x^2-5x+6} - \frac{5}{x-3}$$

$$14. \frac{70}{m^2-100} + \frac{7}{2(m+10)}$$

*Spiral Review*

$$15. \frac{15x}{x+8} \cdot \frac{2x+16}{3x}$$

$$16. \frac{5a+10}{18} \div \frac{a^2-4}{10a}$$

**CYU Reflection:** *How far can you go: basic, intermediate, or advanced?*

**Rate your mastery level!**

How confident are you with the skills this CYU covered? Circle the score you would give yourself.

