Date \_\_\_\_\_

## 7.3 Multiplying & Dividing Rational Expressions DAY ONE CYU

Use when you get it right all by yourself

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

 $\emph{H}$  Use when you could do it alone with a little help from teacher or peer

 $m{G}$  Use when you completed the problem in a group

 $\pmb{X}$  Use when a question was attempted but wrong (get help)

NUse when a question was not even attempted

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Simplifying rational expressions	2	1, 3 - 6	
Multiplying rational expressions		7 - 8	
Dividing rational expressions	9	10	

Simplify the following rational expressions.

1. 
$$\frac{x^2 + 3x + 2}{x^2 - 3x - 4}$$
 2.  $\frac{4x^6}{2x^4}$  3.  $\frac{x^2 - x^3}{2x^2 - 5x + 3}$ 

4. 
$$\frac{x^3 + x^2 - 20x}{x^2 - 16}$$
 5.  $\frac{3x^2 - 9x - 12}{6x^2 + 9x + 3}$  6.  $\frac{9 - 3x}{15 - 2x - x^2}$ 

Multiply. ASSUME all expressions are defined. Simplify completely.

7. 
$$\frac{4x+16}{2x+6} \bullet \frac{x^2+2x-3}{x+4}$$
  
8.  $\frac{x+3}{x-1} \bullet \frac{x^2-2x+1}{x^2+5x+6}$ 

Divide. Assume all expressions are defined. Simplify completely.

9. 
$$\frac{5x^6}{x^2y} \div \frac{10x^2}{y}$$
  
10.  $\frac{x^2 - 2x - 8}{x^2 - 2x - 15} \div \frac{2x^2 - 8x}{2x^2 - 10x}$ 

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.

