Name Key Date _____ Period _____

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*

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
Simplifying rational expressions	2	1, 3 - 6	
Multiplying rational expressions		7 - 8	
Dividing rational expressions	9	10	

Simplify the following rational expressions.

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

$\frac{x+2}{x-4}$

2. $\frac{4x^6}{2x^4}$

$2x^2$

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

$\frac{-x^2}{2x-3}$

4. $\frac{x^3+x^2-20x}{x^2-16}$

$\frac{x(x+5)}{x+4}$

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

$\frac{x-4}{2x+1}$

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

$\frac{3}{x+5}$

Multiply. ASSUME all expressions are defined. Simplify completely.

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

$2(x-1)$

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

$\frac{x-1}{x+2}$

Divide. Assume all expressions are defined. Simplify completely.

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

$\frac{x^2}{2}$

10. $\frac{x^2-2x-8}{x^2-2x-15} \div \frac{2x^2-8x}{2x^2-10x}$

$\frac{x+2}{x+3}$

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.