Name Key Date _____ Pd ____

7.2 Multiplying Rational Functions 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
Multiplying rational expressions	1 - 3	4, 5, 8	6, 7, 9
Simplifying rational expressions	1 - 3	4, 5, 8	6, 7, 9
Domain restriction in interval notation	2, 3	4 - 9	

Find each product and simplify if possible. Show all work to earn full credit. Restrict the domain in interval notation.

1. $\frac{3x}{y^2} \cdot \frac{7y}{4x}$

$\frac{21}{4y}$ no domain restriction

2. $\frac{8x}{2} \cdot \frac{x^5}{4x^2}$

x^4

$(-\infty, 0) \cup (0, \infty)$

3. $-\frac{5a^2b}{30a^2} \cdot b^3$

$-\frac{b^2}{6}$ no domain restriction

4. $\frac{x}{2x-14} \cdot \frac{x^2-7x}{5}$

$\frac{x^2}{10}$

$(-\infty, 7) \cup (7, \infty)$

5. $\frac{6x+6}{5} \cdot \frac{10}{36x+36}$

$\frac{1}{3}$

$(-\infty, -1) \cup (-1, \infty)$

6. $\frac{3x^2+12x}{6} \cdot \frac{9}{2x+8}$

$\frac{9x}{4}$

$(-\infty, -4) \cup (-4, \infty)$

7. $\frac{x^2+5x}{8} \cdot \frac{9}{3x+15}$

$\frac{3x}{8}$

$(-\infty, -5) \cup (-5, \infty)$

8. $\frac{4x-24}{20x} \cdot \frac{5}{x-6}$

$\frac{1}{x}$

$(-\infty, 0) \cup (0, 6) \cup (6, \infty)$

9. $\frac{x^2+x}{8} \cdot \frac{16}{x+1}$

$2x$

$(-\infty, -1) \cup (-1, \infty)$

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.