Name Key Date _____ Pd ____

7.3 Creating Equivalent Rational Expressions DAY THREE 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
Finding an LCD	1 - 4	5 - 8	9 - 12
Multiplying polynomials	1 - 4	5 - 8	9 - 12
Domain restriction	1 - 4	5 - 8	9 - 12

Rewrite each rational expression as an equivalent rational expression with the given denominator. Write your final answer to replace the ? in standard form. Then state what your variable cannot equal, domain restriction.

1. $\frac{3}{2x} = \frac{?}{4x^2}$

$6x$

$x \neq 0$

2. $\frac{3}{9y^5} = \frac{?}{72y^9}$

$24y^4$

$y \neq 0$

3. $\frac{6}{3a} = \frac{?}{12ab^2}$

$24b^2$

$a \neq 0$

$b \neq 0$

4. $\frac{5}{4y^2x} = \frac{?}{32y^3x^2}$

$40xy$

$x \neq 0$

$y \neq 0$

5. $\frac{9}{2x+6} = \frac{?}{2y(x+3)}$

$9y$

$x \neq -3$

$y \neq 0$

6. $\frac{4x+1}{3x+6} = \frac{?}{3y(x+2)}$

$4xy + y$

$x \neq -2$

$y \neq 0$

7. $\frac{9a+2}{5a+10} = \frac{?}{5b(a+2)}$

$9ab+2b$

$a \neq -2$

$b \neq 0$

8. $\frac{5+y}{2x^2+10} = \frac{?}{4(x^2+5)}$

$2y+10$

$x \neq -5i$

9. $\frac{x}{x^3+6x^2+8x} = \frac{?}{x(x+4)(x+2)(x+1)}$

x^2+x

$x \neq 0, -4, -2, -1$

10. $\frac{5x}{x^3+2x^2-3x} = \frac{?}{x(x-1)(x-5)(x+3)}$

$5x^2-25x$

$x \neq 0, 1, 5, -3$

11. $\frac{9y-1}{15x^2-30} = \frac{?}{30x^2-60}$

$18y-2$

$x \neq \sqrt{2}$

12. $\frac{6m-5}{3x^2-9} = \frac{?}{12x^2-36}$

$24m-20$

$x \neq \sqrt{3}$

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.