Name **Key**   Date _____ Pd ____
Bridge to Algebra 2   **7.1 – 7.5 Quiz Review DAY TWO CYU**

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Equation or Expression	1 – 11		
Adding Rational Expressions	6	1, 9	8
Subtracting Rational Expressions	10	3	
Multiplying Rational Expressions		5	
Solving Rational Equations	7	2, 4	11
Determining the LCD	6,7, 10	1 – 5, 9	8, 11
Domain Restriction	6,7, 10	1 – 5, 9	8, 11
Checking solutions on the calculator	7	2, 4	11

Determine whether each of the following is an equation or an expression. If it is an equation, solve it for its variable. If it is an expression, perform the indicated operation. Show all work to earn full credit. Box your final answer includes expression/equation, LCD, Domain Restriction in interval notation, answer, and proof of checking if it is an equation.

1. $\dfrac{3}{a} + \dfrac{5}{6}$

LCD: 6a

$\dfrac{5a+18}{6a}$

2. $\dfrac{3}{a} + \dfrac{5}{6} = 1$

LCD: 6a

$a = 18$

3. $\dfrac{4}{x-3} - \dfrac{1}{x}$

LCD: $x(x-3)$

$\dfrac{3x+3}{x(x-3)}$

4. $\dfrac{4}{x-3} - \dfrac{1}{x} = \dfrac{6}{x(x-3)}$

LCD: $x(x-3)$

$x = 1$

5. $\dfrac{9z+5}{15} \cdot \dfrac{5z}{81z^2-25}$

LCD: $15(9z+5)(9z-5)$

$\dfrac{z}{3(9z-5)}$

6. $\dfrac{4p-3}{2p+7} + \dfrac{3p+8}{2p+7}$

LCD: $2p+7$

$\dfrac{7p+5}{2p+7}$

7. $\frac{1}{2} = \frac{x-1}{8}$

LCD: 8

$x = 5$

8. $\frac{9}{x^2-1} + \frac{12}{3x+3}$

LCD: $(x+1)(x-1)(3)$

$$\frac{(5+4x)}{(x+1)(x-1)}$$

9. $\frac{4}{(2x-5)^2} + \frac{x+1}{2x-5}$

LCD: $(2x-5)^2$

$$\frac{2x^2-3x-1}{(2x-5)^2}$$

10. $\frac{10x-9}{x} - \frac{x-4}{3x}$

LCD: $3x$

$$\frac{29x-23}{3x}$$

11. $\frac{9}{x^2-4} + \frac{2}{x+2} = \frac{-1}{x-2}$

LCD: $(x+2)(x-2)$

$$x = -\frac{7}{3}$$

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.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Basic | | Intermediate | | | Advanced | | Solved ALL! |