

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
Determining an LCD	1, 3, 4	2, 5, 6	7 - 12
Restricting the domain in interval notation	1, 3, 4	2, 5, 6	7 - 12
Solving rational equations	1, 3, 4	2, 5, 6	7 - 12
Checking solutions	1, 3, 4	2, 5, 6	7 - 12

Solve each equation. State your LCD & Domain restriction. Check each solution(s) for extraneous solutions.

1. $\frac{x}{5} + 3 = 9$

2. $\frac{x}{5} + \frac{5x}{4} = \frac{x}{12}$

3. $2 - \frac{8}{x} = 6$

4. $2 + \frac{10}{x} = x + 5$

5. $\frac{a}{5} = \frac{a-3}{2}$

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

Solve each equation and check each proposed solution.

7. $\frac{3}{2a-5} = -1$

8. $\frac{4y}{y-4} + 5 = \frac{5y}{y-4}$

9. $2 + \frac{3}{a-3} = \frac{a}{a-3}$

10. $\frac{1}{x+3} + \frac{6}{x^2-9} = 1$

11. $\frac{2y}{y+4} + \frac{4}{y+4} = 3$

12. $\frac{2x}{x+2} - 2 = \frac{x-8}{x-2}$

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.

