

Name _____

7.5

Practice WS

In Exercises 1–3, solve the equation by cross multiplying. Check your solution(s).

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

2. $\frac{4}{x+2} = \frac{6}{x-2}$

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

4. So far in baseball practice, you have pitched 47 strikes out of 61 pitches. Solve the equation $\frac{80}{100} = \frac{47+x}{61+x}$ to find the number x of consecutive strikes you need to pitch to raise your strike percentage to 80%.

In Exercises 5–10, solve the equation by using the LCD. Check your solution(s).

5. $\frac{4}{3} + \frac{2}{x} = 4$

6. $\frac{5}{2x} + \frac{1}{4} = \frac{9}{2x}$

7. $\frac{x-2}{x-3} + 3 = \frac{2x}{x}$

8. $\frac{4}{x-5} + \frac{1}{x} = \frac{x-1}{x-5}$

9. $\frac{8}{x} + 3 = \frac{x+8}{x-4}$

10. $\frac{12}{x^2-2x} - \frac{3}{x-2} = \frac{3}{x}$

11. Describe and correct the error in the first step of solving the equation.

\times	$\frac{4}{x} + \frac{1}{2} = 1$
	$2x \cdot \frac{4}{x} + 2x \cdot \frac{1}{2} = 1$