

Name: _____

Rational Equations Worksheet #1

Solve each equation. Check your solutions.

1. $\frac{1}{2} + \frac{2}{x} = \frac{1}{x}$

2. $5 + \frac{2}{p} = \frac{17}{p}$

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

4. $\frac{5}{2s} + \frac{3}{4} = \frac{9}{4s}$

5. $\frac{5}{3p} + \frac{2}{3} = \frac{5+p}{2p}$

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

7. $7 + \frac{3}{x} = \frac{7}{x} + 9$

8. $\frac{30}{x+3} = \frac{30}{x-3}$

9. David can unload a delivery truck in 20 min. Allie can unload a delivery truck in 35 min. How long will the unloading take them if they work together?

10. **Gardening** Marian can weed a garden in 3 hours. Robin can weed the same garden in 4 hours. How long will the weeding take them if they work together?