

NAME _____

Module 16 Solving Rational Equations**Lesson 1** Solving Rational Equations

**additional
practice**

Solve each rational equation. Disregard restricted values.

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| 1. $\frac{t}{6} = \frac{2}{3}$ $t = 4$ _____ | 2. $\frac{r}{6} = \frac{3}{2}$ $r = 9$ _____ |
| 3. $\frac{2}{q} = \frac{4}{12}$ $q = 6$ _____ | 4. $\frac{5}{6} = \frac{10}{m}$ $m = 12$ _____ |
| 5. $\frac{x}{12} = \frac{1}{4} + \frac{x}{6}$ $x = -3$ _____ | 6. $\frac{2y}{5} = \frac{3}{5} + \frac{y}{2}$ $y = -6$ _____ |
| 7. $\frac{6}{n} = \frac{3}{4} + \frac{6}{n}$ no solution _____ | 8. $\frac{4}{5s} = \frac{2}{3}$ $s = \frac{6}{5}, \text{ or } 1\frac{1}{5}$ _____ |
| 9. $\frac{3}{7x} = \frac{1}{14}$ $x = 6$ _____ | 10. $\frac{6}{2c} - \frac{2}{c} = \frac{1}{4}$ $c = 4$ _____ |
| 11. $\frac{3}{a-4} = \frac{5}{a+2}$ $a = 13$ _____ | 12. $\frac{4}{x-5} = \frac{3}{x+2}$ $x = -23$ _____ |
| 13. $\frac{2}{x+4} = \frac{3}{x-1}$ $x = -14$ _____ | 14. $\frac{-3}{k-6} = \frac{5}{k+2}$ $k = 3$ _____ |
| 15. $\frac{3n}{n-4} + \frac{5}{n-4} = 2$ $n = -13$ _____ | 16. $\frac{4y}{y+1} + 6 = \frac{3}{y+1}$ $y = \frac{-3}{10}$ _____ |
| 17. $\frac{2a}{a-4} - \frac{6}{a-4} = 1$ $a = 2$ _____ | 18. $\frac{3}{5-x} + 4 = \frac{7}{2}$ $x = 11$ _____ |
| 19. $\frac{g}{g-1} + \frac{2}{3} = \frac{3}{g-1}$ $g = \frac{11}{5}, \text{ or } 2\frac{1}{5}$ _____ | 20. $\frac{r}{r+3} - \frac{3}{4} = \frac{2}{r+3}$ $r = 17$ _____ |

