

Practice 5-8

Solving Equations by Multiplying Fractions

Solve each equation.

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|---|---|
| 1. $\frac{3}{4}x = \frac{9}{16}$ _____ | 2. $-\frac{1}{3}p = \frac{1}{4}$ _____ |
| 3. $\frac{-3}{8}k = \frac{1}{2}$ _____ | 4. $\frac{1}{8}h = \frac{1}{10}$ _____ |
| 5. $2\frac{2}{3}e = \frac{1}{18}$ _____ | 6. $-1\frac{2}{7}m = 6$ _____ |
| 7. $-\frac{1}{4}p = \frac{1}{18}$ _____ | 8. $\frac{11}{-12}w = -1$ _____ |
| 9. $-3\frac{4}{7}x = 0$ _____ | 10. $\frac{2}{3}m = 2\frac{2}{9}$ _____ |
| 11. $5c = \frac{2}{3}$ _____ | 12. $-8k = \frac{4}{5}$ _____ |
| 13. $\frac{4}{7}y = 4$ _____ | 14. $2\frac{1}{4}f = \frac{6}{5}$ _____ |
| 15. $\frac{10}{11}n = \frac{2}{11}$ _____ | 16. $\frac{7}{8}c = \frac{7}{6}$ _____ |

Solve each equation using mental math.

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|-------------------------------|---|
| 17. $7d = 42$ _____ | 18. $\frac{1}{4}y = 5$ _____ |
| 19. $-3h = \frac{3}{8}$ _____ | 20. $\frac{1}{5}k = -\frac{1}{3}$ _____ |

Write an equation to solve each problem.

21. It takes Nancy $1\frac{2}{3}$ min to read 1 page in her social studies book. It took her $22\frac{1}{2}$ min to complete her reading assignment. How long was the assignment? Let m represent the number of pages she read.
- _____
22. It takes Gary three hours to drive to Boston. If the trip is 156 miles, what is Gary's average number of miles per hour? Let x represent the miles per hour.
- _____

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