

Solve each equation. Check your solution.

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|------------------------|-------------------------|--------------------------|
| 1. $4x = 36$ | 2. $39 = 3y$ | 3. $4z = 16$ |
| 4. $\frac{t}{5} = 6$ | 5. $100 = 20b$ | 6. $8 = \frac{w}{8}$ |
| 7. $10a = 40$ | 8. $\frac{s}{9} = 8$ | 9. $420 = 5s$ |
| 10. $8k = 72$ | 11. $2m = 18$ | 12. $\frac{m}{8} = 5$ |
| 13. $\frac{r}{7} = -8$ | 14. $\frac{w}{7} = 8$ | 15. $18q = 36$ |
| 16. $9w = 54$ | 17. $4 = p \div 4$ | 18. $14 = 2p$ |
| 19. $12 = 3t$ | 20. $\frac{m}{4} = 12$ | 21. $6h = 12$ |
| 22. $-2a = -8$ | 23. $0 = 6r$ | 24. $\frac{y}{12} = -6$ |
| 25. $3m = -15$ | 26. $\frac{c}{-4} = 10$ | 27. $-6f = -36$ |
| 28. $81 = -9w$ | 29. $6r = 42$ | 30. $\frac{x}{-2} = -15$ |

Lesson 2-1

Write each fraction or mixed number as a decimal.

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|------------------|--------------------|---------------------|-------------------|
| 1. $\frac{2}{5}$ | 2. $2\frac{3}{11}$ | 3. $-\frac{3}{4}$ | 4. $\frac{5}{7}$ |
| 5. $\frac{3}{4}$ | 6. $-\frac{2}{3}$ | 7. $\frac{7}{11}$ | 8. $\frac{1}{2}$ |
| 9. $\frac{5}{6}$ | 10. $1\frac{3}{5}$ | 11. $-2\frac{1}{4}$ | 12. $\frac{8}{9}$ |

Write each decimal as a fraction or mixed number in simplest form.

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|----------------------|------------------------|------------|-----------------------|
| 13. 0.5 | 14. $0.\overline{8}$ | 15. 0.32 | 16. -0.75 |
| 17. $2.\overline{2}$ | 18. $0.\overline{38}$ | 19. -0.486 | 20. 20.08 |
| 21. -9.36 | 22. $10.\overline{18}$ | 23. 1.24 | 24. $-5.\overline{7}$ |

Lesson 2-2

Replace each \bullet with $<$, $>$, or $=$ to make a true sentence.

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|--------------------------------------|--------------------------------------|------------------------------------|---------------------------------------|
| 1. $-5.6 \bullet 4.2$ | 2. $4.256 \bullet 4.25$ | 3. $0.233 \bullet 0.\overline{23}$ | 4. $\frac{5}{7} \bullet \frac{2}{5}$ |
| 5. $\frac{6}{7} \bullet \frac{7}{9}$ | 6. $\frac{2}{3} \bullet \frac{2}{5}$ | 7. $\frac{3}{8} \bullet 0.375$ | 8. $-\frac{1}{2} \bullet 0.5$ |
| 9. $12.56 \bullet 12\frac{3}{8}$ | 10. $-0.25 \bullet -0.26$ | 11. $1.31 \bullet 1.\overline{31}$ | 12. $\frac{3}{5} \bullet \frac{2}{3}$ |

Order each set of rational numbers from least to greatest.

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| 13. 0.24, 0.2, 0.245, 2.24, 0.25 | 14. $0.\overline{3}$, 0.3, $0.\overline{34}$, $0.\overline{34}$, 0.33 |
| 15. $\frac{2}{5}$, $\frac{2}{3}$, $\frac{2}{7}$, $\frac{2}{9}$, $\frac{2}{1}$ | 16. $\frac{1}{2}$, $\frac{5}{7}$, $\frac{2}{9}$, $\frac{8}{9}$, $\frac{6}{6}$ |
| 17. 0.25, 0.2, 0.02, 0.251, $\frac{253}{1,000}$ | 18. $\frac{3}{10}$, $\frac{3}{2}$, $\frac{3}{5}$, $\frac{3}{1}$, $\frac{3}{8}$, $\frac{3}{7}$, $\frac{3}{4}$ |
| 19. $\frac{3}{5}$, $\frac{2}{3}$, 0.61, 0.65, $\frac{33}{50}$ | 20. $-\frac{3}{5}$, $-\frac{2}{3}$, $-\frac{1}{2}$, $-\frac{3}{4}$, $-\frac{5}{6}$ |
| 21. $\frac{4}{9}$, 0.4, 0.44, $\frac{3}{5}$ | 22. 7.5, $7\frac{2}{3}$, $6\frac{5}{6}$, 6.8 |
| 23. $-\frac{2}{3}$, $\frac{1}{3}$, 0.1, $\frac{5}{6}$ | 24. -0.5, 0.5, 0, 0.35, -0.51 |