

CHAPTER
2

Extra Practice

Skills

- **Lesson 2-1** Find the GCF of each pair of numbers using prime factorization.

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| 1. 9, 33 | 2. 7, 15 | 3. 6, 24 | 4. 4, 18 |
| 5. 22, 121 | 6. 17, 51 | 7. 42, 165 | 8. 18, 60 |

- **Lesson 2-2** Write each fraction in simplest form.

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| 9. $\frac{20}{25}$ | 10. $\frac{7}{77}$ | 11. $\frac{40}{48}$ | 12. $-\frac{15}{35}$ |
| 13. $-\frac{9}{42}$ | 14. $\frac{36}{63}$ | 15. $-\frac{26}{65}$ | 16. $\frac{34}{51}$ |

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

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| 17. 0.45 | 18. 12.2 | 19. 8.6 | 20. $0.\overline{8}$ |
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- **Lesson 2-3** Compare. Write $<$, $=$, or $>$.

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| 21. $\frac{25}{36}$ ■ $0.69\overline{4}$ | 22. 2.7 ■ $\frac{10}{3}$ | 23. -4.3 ■ -4.2 | 24. $-\frac{17}{5}$ ■ -15.9 |
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- **Lessons 2-4 and 2-5** Simplify. Write each answer in simplest form.

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| 25. $-\frac{3}{8} + \frac{7}{8}$ | 26. $-\frac{5}{18} + \left(-\frac{1}{6}\right)$ | 27. $12\frac{1}{3} - 6\frac{2}{3}$ | 28. $3\frac{1}{2} - \left(-\frac{11}{14}\right)$ |
| 29. $-\frac{3}{7} \cdot \frac{5}{9}$ | 30. $-4\frac{5}{24} \cdot (-6)$ | 31. $-2\frac{1}{2} \div 6$ | 32. $-25 \div \frac{5}{7}$ |

- **Lesson 2-6** Solve each formula for the variable indicated in red.

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|-------------------------|---------------|-------------------|----------------|
| 33. $V = \frac{1}{3}Bh$ | 34. $I = prt$ | 35. $C = 44a + b$ | 36. $E = mc^2$ |
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- **Lesson 2-7** Simplify or evaluate each expression.

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| 37. $-3^2 - (-8)$ | 38. $(-2)^3 + 4 \div 2 - 3$ | 39. $(3 - 4)^5 - 17 + 1^{12}$ |
| 40. $2r^2 + 6r + 3$ for $r = -6$ | 41. $-c^3 + 2c^2 - c + 8$ for $c = 3$ | |

- **Lesson 2-8** Write each number in scientific notation.

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| 42. 400,000,000 | 43. 8,750,000 | 44. 40,000 | 45. 19,000,000 |
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