

NAME \_\_\_\_\_

DATE \_\_\_\_\_

**Module 15** Simplifying Rational Expressions  
**Lesson 2** Simplifying Rational Expressions

**additional  
practice**

Simplify the following rational expressions.

- |   |   |
|---|---|
| 1. $\frac{32m^2}{12m}$ _____              | 2. $\frac{22a^2b^2c^4}{11a^4b^2c^8}$ _____      |
| 3. $\frac{c+4}{c}$ _____                  | 4. $\frac{5r^2s^4t}{10r^4st^3}$ _____           |
| 5. $\frac{2g^3+6g}{g^2+3}$ _____          | 6. $\frac{n^2-4n}{5n-20}$ _____                 |
| 7. $\frac{8y^2+12y}{4y+6}$ _____          | 8. $\frac{j-4}{4-j}$ _____                      |
| 9. $\frac{2y^2-6y}{18-6y}$ _____          | 10. $\frac{20x-4x^2}{x^2-5x}$ _____             |
| 11. $\frac{3p+12}{9p+36}$ _____           | 12. $\frac{r^2-3r+2}{r^2+4r-5}$ _____           |
| 13. $\frac{12p+24}{18p+36}$ _____         | 14. $\frac{4j^3-9j}{6j-9}$ _____                |
| 15. $\frac{j^2-4j-45}{j^2-6j-27}$ _____   | 16. $\frac{2m^2+4m-70}{m^2-m-20}$ _____         |
| 17. $\frac{2k^3-32k}{k^2+2k-24}$ _____    | 18. $\frac{5x^2+17x-12}{30x^2-13x-3}$ _____     |
| 19. $\frac{3b^2-2b-8}{3b^2-11b-20}$ _____ | 20. $\frac{4k^3+14k^2+10k}{20k^2+54k+10}$ _____ |



