

## 12-4c Multiplying & Dividing Rational Expressions

Name \_\_\_\_\_

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Divide. Simplify your answer.

$$19. \frac{3a^4b}{2a^2c^3} \div \frac{12a^2c}{8c^4}$$

$$20. \frac{2m^3 + 2m}{m^2 - 2m} \div \frac{4m^2 + 4}{m - 1}$$

$$21. \frac{x^2 + 4x - 5}{3x - 3} \div (x^2 - 25)$$

$$32. \frac{6j^2k^5}{5j} \div \frac{4j^3k^3}{3j}$$

$$34. \frac{x^2 - 9}{x^2 + 6x + 9} \div \frac{4x^2 - 12x}{16x}$$

Multiply or divide. Simplify your answer.

$$38. \frac{5p^3}{p^2q} \cdot \frac{2q^3}{p^2}$$

$$39. \frac{6m^2 - 18m}{12m^3 + 12m^2} \div \frac{m^2 - 9}{m^2 + 4m + 3}$$

$$40. \frac{2x^2}{4x - 8} \cdot \frac{x^2 - 5x + 6}{x^5}$$