

Name : \_\_\_\_\_ Score : \_\_\_\_\_

Teacher : \_\_\_\_\_ Date : \_\_\_\_\_

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## Exponents and Division

**Simplify. Your answer should contain only positive exponents.**

1)  $\frac{5r^6}{7r^4b^3}$

7)  $\frac{4^5}{4^3}$

2)  $\frac{d}{d^5}$

8)  $\frac{8^6}{8}$

3)  $\frac{4g^4}{7g^2}$

9)  $\frac{5b^2c^5}{7b^6c^4}$

4)  $\frac{hc}{4h^4c^5}$

10)  $\frac{6c}{2c^4}$

5)  $\frac{6rz^2}{5r^5z^4}$

11)  $\frac{2k^5}{8k}$

6)  $\frac{6n^3k^5}{3nk^6}$

12)  $\frac{y^6}{y^2}$

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## Exponents and Division

**Simplify. Your answer should contain only positive exponents.**

$$1) \frac{5r^6}{7r^4b^3} \cdot \frac{5r^2}{7b^3}$$

$$7) \frac{4^5}{4^3} \cdot 4^2$$

$$2) \frac{d}{d^5} \cdot \frac{1}{d^4}$$

$$8) \frac{8^6}{8} \cdot 8^5$$

$$3) \frac{4g^4}{7g^2} \cdot \frac{4g^2}{7}$$

$$9) \frac{5b^2c^5}{7b^6c^4} \cdot \frac{5c}{7b^4}$$

$$4) \frac{hc}{4h^4c^5} \cdot \frac{1}{4h^3c^4}$$

$$10) \frac{6c}{2c^4} \cdot \frac{3}{c^3}$$

$$5) \frac{6rz^2}{5r^5z^4} \cdot \frac{6}{5r^4z^2}$$

$$11) \frac{2k^5}{8k} \cdot \frac{k^4}{4}$$

$$6) \frac{6n^3k^5}{3nk^6} \cdot \frac{2n^2}{k}$$

$$12) \frac{y^6}{y^2} \cdot y^4$$