

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

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

## Exponents with Multiplication and Division

Simplify. Your answer should contain only positive exponents.

1)  $\frac{2c^6}{7c^5}$

7)  $y^6z^{-2} \cdot 3y^{-6}z^2 \cdot 9yz^3$

2)  $2 \cdot 2^{-4}$

8)  $\frac{3y^4n^6}{8y^3n^2}$

3)  $3d^2 \cdot 4d^5$

9)  $\frac{3w^{-3}k^{-2}}{6wk^{-6}}$

4)  $\frac{gn}{6g^2n^4}$

10)  $rw \cdot 3r^5w^2$

5)  $2wd^3 \cdot 3w^6d^4$

11)  $\frac{6y^{-2}}{3y^{-6}}$

6)  $zk \cdot 3z^{-3}k^{-5}$

12)  $\frac{2^2}{2^{-2}}$

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

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

## Exponents with Multiplication and Division

Simplify. Your answer should contain only positive exponents.

$$1) \frac{2c^6}{7c^5}$$
$$\frac{2c}{7}$$

$$7) y^6z^{-2} \cdot 3y^{-6}z^2 \cdot 9yz^3$$
$$27yz^3$$

$$2) 2 \cdot 2^{-4}$$
$$\frac{1}{2^3}$$

$$8) \frac{3y^4n^6}{8y^3n^2}$$
$$\frac{3yn^4}{8}$$

$$3) 3d^2 \cdot 4d^5$$
$$12d^7$$

$$9) \frac{3w^{-3}k^{-2}}{6wk^{-6}}$$
$$\frac{k^4}{2w^4}$$

$$4) \frac{gn}{6g^2n^4}$$
$$\frac{1}{6gn^3}$$

$$10) rw \cdot 3r^5w^2$$
$$3r^6w^3$$

$$5) 2wd^3 \cdot 3w^6d^4$$
$$6w^7d^7$$

$$11) \frac{6y^{-2}}{3y^{-6}}$$
$$2y^4$$

$$6) zk \cdot 3z^{-3}k^{-5}$$
$$\frac{3}{z^2k^4}$$

$$12) \frac{2^2}{2^{-2}}$$
$$2^4$$