

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

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

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

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

## Exponents with Multiplication and Division

Simplify. Your answer should contain only positive exponents.

1)  $9h^2n^6 \cdot 6h^5n^3$

7)  $4w \cdot 9w^{-3}$

2)  $\left(\frac{1}{k}\right)^2 \cdot \left(\frac{1}{k}\right)^5$

8)  $k^4 \cdot k^6$

3)  $\frac{2r^3g^4}{8rg^2}$

9)  $\frac{3y^3r^4}{6y^5r^6}$

4)  $\frac{3yd^2}{6y^3d^6}$

10)  $\frac{6d^{-6}}{3d}$

5)  $k \cdot k^{-6}$

11)  $3 \cdot 3^{-2}$

6)  $\frac{5g^{-2}}{2g^5}$

12)  $\frac{6k^{-6}y^{-2}}{3ky^{-4}}$



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## Exponents with Multiplication and Division

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

1)  $9h^2n^6 \cdot 6h^5n^3$

$$54h^7n^9$$

7)  $4w \cdot 9w^{-3}$

$$\frac{36}{w^2}$$

2)  $\left(\frac{1}{k}\right)^2 \cdot \left(\frac{1}{k}\right)^5$

$$\left(\frac{1}{k}\right)^7$$

8)  $k^4 \cdot k^6$

$$k^{10}$$

3)  $\frac{2r^3g^4}{8rg^2}$   
$$\frac{r^2g^2}{4}$$

9)  $\frac{3y^3r^4}{6y^5r^6}$   
$$\frac{1}{2y^2r^2}$$

4)  $\frac{3yd^2}{6y^3d^6}$   
$$\frac{1}{2y^2d^4}$$

10)  $\frac{6d^{-6}}{3d}$   
$$\frac{2}{d^7}$$

5)  $k \cdot k^{-6}$

$$\frac{1}{k^5}$$

11)  $3 \cdot 3^{-2}$

$$\frac{1}{3^1}$$

6)  $\frac{5g^{-2}}{2g^5}$   
$$\frac{5}{2g^7}$$

12)  $\frac{6k^{-6}y^{-2}}{3ky^{-4}}$   
$$\frac{2y^2}{k^7}$$

