

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

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

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

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

## Exponents with Multiplication and Division

Simplify. Your answer should contain only positive exponents.

1)  $h^5 r^4 \cdot 2h^3 r^2 \cdot 8hr^3$

7)  $5kw^{-2} \cdot 4k^{-4}w^3$

2)  $\frac{9b}{5b^3}$

8)  $\left(\frac{1}{6}\right)^3 \cdot \left(\frac{1}{6}\right)^2$

3)  $\frac{5dh^3}{3d^4h^6}$

9)  $\frac{8s^{-5}n^6}{6s^3n^{-2}}$

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

10)  $g^4 \cdot g^6$

5)  $\frac{4^5}{4^{-6}}$

11)  $\frac{6^3}{6}$

6)  $8k \cdot 4k^{-3}$

12)  $\frac{s}{s^{-5}}$



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## Exponents with Multiplication and Division

Simplify. Your answer should contain only positive exponents.

1)  $h^5 r^4 \cdot 2h^3 r^2 \cdot 8hr^3$

$$16h^9 r^9$$

2)  $\frac{9b}{5b^3}$

$$\frac{9}{5b^2}$$

3)  $\frac{5dh^3}{3d^4 h^6}$

$$\frac{5}{3d^3 h^3}$$

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

$$\frac{1}{2^1}$$

5)  $\frac{4^5}{4^{-6}}$

$$4^{11}$$

6)  $8k \cdot 4k^{-3}$

$$\frac{32}{k^2}$$

7)  $5kw^{-2} \cdot 4k^{-4}w^3$

$$20 \frac{w}{k^3}$$

8)  $\left(\frac{1}{6}\right)^3 \cdot \left(\frac{1}{6}\right)^2$

$$\left(\frac{1}{6}\right)^5$$

9)  $\frac{8s^{-5}n^6}{6s^3 n^{-2}}$

$$\frac{4n^8}{3s^8}$$

10)  $g^4 \cdot g^6$

$$g^{10}$$

11)  $\frac{6^3}{6}$

$$6^2$$

12)  $\frac{s}{s^{-5}}$

$$s^6$$

