

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

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

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

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

## Exponents with Multiplication and Division

Simplify. Your answer should contain only positive exponents.

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

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

2)  $8h^6g^5 \cdot 5h^4g^2$

8)  $by \cdot 4b^{-2}y^{-3}$

3)  $9c^{-4}g^4 \cdot 5cg^{-6}$

9)  $\frac{7b^{-2}y^6}{8b^5y^{-3}}$

4)  $4h \cdot 9h^6$

10)  $\frac{n}{n^6}$

5)  $\left(\frac{5}{8}\right)^2 \cdot \left(\frac{5}{8}\right)^6$

11)  $\frac{d^3}{d^{-4}}$

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

12)  $\frac{9w^{-5}}{7w^5}$



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## Exponents with Multiplication and Division

Simplify. Your answer should contain only positive exponents.

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

$1$

2)  $8h^6g^5 \cdot 5h^4g^2$

$40h^{10}g^7$

3)  $9c^{-4}g^4 \cdot 5cg^{-6}$

$\frac{45}{c^3g^2}$

4)  $4h \cdot 9h^6$

$36h^7$

5)  $\left(\frac{5}{8}\right)^2 \cdot \left(\frac{5}{8}\right)^6$

$\left(\frac{5}{8}\right)^8$

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

$\frac{3}{2b^4}$

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

$2w^3b^2$

8)  $by \cdot 4b^{-2}y^{-3}$

$\frac{4}{by^2}$

9)  $\frac{7b^{-2}y^6}{8b^5y^{-3}}$

$\frac{7y^9}{8b^7}$

10)  $\frac{n}{n^6}$

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

11)  $\frac{d^3}{d^{-4}}$

$d^7$

12)  $\frac{9w^{-5}}{7w^5}$

$\frac{9}{7w^{10}}$

