

Name : _____

Score : _____

Teacher : _____

Date : _____

Powers of Quotients

Simplify the exponents.

1) $\left(\frac{7w^3}{5w}\right)^3$

7) $\left(\frac{b}{b^2}\right)^2$

2) $\left(\frac{7^4}{7^5}\right)^2$

8) $\left(\frac{8hb^4}{6h^3b^6}\right)^3$

3) $\left(\frac{2h}{5h^4}\right)^3$

9) $\left(\frac{2g^3}{4g^6}\right)^2$

4) $\left(\frac{9y^5}{7y^6r^3}\right)^2$

10) $\left(\frac{sk}{9s^3k^4}\right)^3$

5) $\left(\frac{c^5}{c^2}\right)^2$

11) $\left(\frac{9^5}{9}\right)^3$

6) $\left(\frac{6h^6b^5}{9h^4b^2}\right)^3$

12) $\left(\frac{9d^5g^4}{7dg^3}\right)^3$



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Powers of Quotients

Simplify the exponents.

1) $\left(\frac{7w^3}{5w}\right)^3$

$$\frac{343w^6}{125}$$

2) $\left(\frac{7^4}{7^5}\right)^2$

$$\frac{1}{7^2}$$

3) $\left(\frac{2h}{5h^4}\right)^3$

$$\frac{8}{125h^9}$$

4) $\left(\frac{9y^5}{7y^6r^3}\right)^2$

$$\frac{81}{49y^2r^6}$$

5) $\left(\frac{c^5}{c^2}\right)^2$

$$c^6$$

6) $\left(\frac{6h^6b^5}{9h^4b^2}\right)^3$

$$\frac{8h^6b^9}{27}$$

7) $\left(\frac{b}{b^2}\right)^2$

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

8) $\left(\frac{8hb^4}{6h^3b^6}\right)^3$

$$\frac{64}{27h^6b^6}$$

9) $\left(\frac{2g^3}{4g^6}\right)^2$

$$\frac{1}{4g^6}$$

10) $\left(\frac{sk}{9s^3k^4}\right)^3$

$$\frac{1}{729s^6k^9}$$

11) $\left(\frac{9^5}{9}\right)^3$

$$9^{12}$$

12) $\left(\frac{9d^5g^4}{7dg^3}\right)^3$

$$\frac{729d^{12}g^3}{343}$$

