

Name : _____

Score : _____

Teacher : _____

Date : _____

Powers of Quotients *A*

Simplify the exponents.

1) $\left(\frac{7z^6h^3}{3zh^5}\right)^2$

7) $\left(\frac{2k^6}{6k}\right)^2$

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

8) $\left(\frac{3d}{9d^3}\right)^3$

3) $\left(\frac{4cy^3}{5c^4y^2}\right)^2$

9) $\left(\frac{2c^4}{7c^5d^3}\right)^3$

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

10) $\left(\frac{8n^3b^4}{3n^6b^5}\right)^2$

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

11) $\left(\frac{3b^6}{5b^3}\right)^2$

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

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



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Powers of Products and Quotients *B*

Simplify the exponents.

1) $(4c \cdot 2c^3 \cdot c^2)^2$

7) $\left(\frac{6^3}{6}\right)^3$

2) $(2n^2 \cdot 3n \cdot n^2)^3$

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

3) $(4h \cdot 2h^3)^2$

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

4) $(3c^2 \cdot c)^3$

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

5) $(2z^2 \cdot 3z)^3$

11) $\left(\frac{g^2}{g^6}\right)^2$

6) $(6bh^2)^6$

12) $\left(\frac{8s}{2s^5}\right)^3$

