

Name : _____

Score : _____

Teacher : _____

Date : _____

Simplify the exponents.

1) $\left(\frac{7b^3n^2}{2b^6n^5}\right)^3$

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

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

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

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

9) $\left(\frac{2yw^2}{6y^5w^6}\right)^3$

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

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

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

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

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

12) $\left(\frac{9^5}{9^2}\right)^3$

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Simplify the exponents.

1) $\left(\frac{7b^3n^2}{2b^6n^5}\right)^3$

$$\frac{343}{8b^9n^9}$$

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

$$\frac{27s^3}{8}$$

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

$$\frac{25y^4}{36}$$

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

$$\frac{49r^{10}g^4}{16}$$

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

$$n^2$$

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

$$\frac{1}{729w^{12}h^9}$$

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

$$\frac{1}{d^{15}}$$

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

$$\frac{4}{25d^8}$$

9) $\left(\frac{2yw^2}{6y^5w^6}\right)^3$

$$\frac{1}{27y^{12}w^{12}}$$

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

$$7^6$$

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

$$\frac{9h^2}{4z^4}$$

12) $\left(\frac{9^5}{9^2}\right)^3$

$$9^9$$