

Name : _____

Score : _____

Teacher : _____

Date : _____

Operations with Exponents

Simplify the exponents.

1) $\frac{c^3}{c^{-4}}$

7) $7d^6y^{-3} \cdot 3d^{-6}y^4$

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

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

3) $\left(\frac{3n^4}{7n^2}\right)^3$

9) $(b \cdot 2b^2 \cdot b^3)^3$

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

10) $(4cd^3)^6$

5) $\frac{8r^6w^2}{3rw^4}$

11) $r^6 \cdot r^4 \cdot r^3$

6) $2b^5 \cdot 9b^3$

12) $\frac{4d}{3d^2}$



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Operations with Exponents

Simplify the exponents.

$$1) \frac{c^3}{c^{-4}}$$
$$c^7$$

$$7) 7d^6y^{-3} \cdot 3d^{-6}y^4$$
$$21y$$

$$2) \left(\frac{7z^4}{4z^3y^6} \right)^2$$
$$\frac{49z^2}{16y^{12}}$$

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

$$3) \left(\frac{3n^4}{7n^2} \right)^3$$
$$\frac{27n^6}{343}$$

$$9) (b \cdot 2b^2 \cdot b^3)^3$$
$$8b^{18}$$

$$4) (3g^3 \cdot 2g)^3$$
$$216g^{12}$$

$$10) (4cd^3)^6$$
$$4096c^6d^{18}$$

$$5) \frac{8r^6w^2}{3rw^4}$$
$$\frac{8r^5}{3w^2}$$

$$11) r^6 \cdot r^4 \cdot r^3$$
$$r^{13}$$

$$6) 2b^5 \cdot 9b^3$$
$$18b^8$$

$$12) \frac{4d}{3d^2}$$
$$\frac{4}{3d}$$

