

Name : _____

Score : _____

Teacher : _____

Date : _____

Operations with Exponents

Simplify the exponents.

1) $\frac{5c^{-3}}{2c^2}$

7) $\frac{9h^5z^6}{6hz^2}$

2) $yz \cdot 3y^6z^5$

8) $8s \cdot 9s^{-3}$

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

9) $(2d^3 \cdot d^3 \cdot 4d)^2$

4) $\left(\frac{7y^3}{8y^2}\right)^2$

10) $\left(\frac{9h^5r^4}{8h^6r^3}\right)^2$

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

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

6) $(2d \cdot 3d^2)^3$

12) $5sy^5 \cdot 4s^3y^6$



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Operations with Exponents

Simplify the exponents.

$$1) \frac{5c^{-3}}{2c^2}$$
$$\frac{5}{2c^5}$$

$$2) yz \cdot 3y^6z^5$$
$$3y^7z^6$$

$$3) (4c^3 \cdot 2c^2 \cdot c)^2$$
$$64c^{12}$$

$$4) \left(\frac{7y^3}{8y^2}\right)^2$$
$$\frac{49y^2}{64}$$

$$5) \left(\frac{7g^6}{6g}\right)^2$$
$$\frac{49g^{10}}{36}$$

$$6) (2d \cdot 3d^2)^3$$
$$216d^9$$

$$7) \frac{9h^5z^6}{6hz^2}$$
$$\frac{3h^4z^4}{2}$$

$$8) 8s \cdot 9s^{-3}$$
$$\frac{72}{s^2}$$

$$9) (2d^3 \cdot d^3 \cdot 4d)^2$$
$$64d^{14}$$

$$10) \left(\frac{9h^5r^4}{8h^6r^3}\right)^2$$
$$\frac{81r^2}{64h^2}$$

$$11) \frac{d}{d^4}$$
$$\frac{1}{d^3}$$

$$12) 5sy^5 \cdot 4s^3y^6$$
$$20s^4y^{11}$$

