

Name : _____

Score : _____

Teacher : _____

Date : _____

Exponents and Multiplication

Simplify. Your answer should contain only positive exponents.

1) $6h^6 \cdot 3h^3s^2$

8) $2z^2b^4 \cdot 9zb^6$

2) $2 \cdot 2^{-6}$

9) $\left(\frac{1}{2}\right)^5 \cdot \left(\frac{1}{2}\right)^6 \cdot \left(\frac{1}{2}\right)^3$

3) $8g^5 \cdot 5g^{-6}$

10) $6d \cdot 4d^{-4}$

4) $kc \cdot 7k^{-5}c^{-3}$

11) $\left(\frac{4}{9}\right)^5 \cdot \left(\frac{4}{9}\right)^2$

5) $6d^3 \cdot 9d^{-4} \cdot 2d^{-2}$

12) $n^3 \cdot n^4$

6) $2g^{-4}c^5 \cdot 4gc^{-3}$

13) $4 \cdot 4^2$

7) $\left(\frac{1}{5}\right)^5 \cdot \left(\frac{1}{5}\right)^2$

14) $z^{-3} \cdot z^4$



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Exponents and Multiplication

Simplify. Your answer should contain only positive exponents.

1) $6h^6 \cdot 3h^3s^2$

$$18h^9s^2$$

2) $2 \cdot 2^{-6}$

$$\frac{1}{2^5}$$

3) $8g^5 \cdot 5g^{-6}$

$$\frac{40}{g}$$

4) $kc \cdot 7k^{-5}c^{-3}$

$$\frac{7}{k^4c^2}$$

5) $6d^3 \cdot 9d^{-4} \cdot 2d^{-2}$

$$\frac{108}{d^3}$$

6) $2g^{-4}c^5 \cdot 4gc^{-3}$

$$8 \frac{c^2}{g^3}$$

7) $\left(\frac{1}{5}\right)^5 \cdot \left(\frac{1}{5}\right)^2$

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

8) $2z^2b^4 \cdot 9zb^6$

$$18z^3b^{10}$$

9) $\left(\frac{1}{2}\right)^5 \cdot \left(\frac{1}{2}\right)^6 \cdot \left(\frac{1}{2}\right)^3$

$$\left(\frac{1}{2}\right)^{14}$$

10) $6d \cdot 4d^{-4}$

$$\frac{24}{d^3}$$

11) $\left(\frac{4}{9}\right)^5 \cdot \left(\frac{4}{9}\right)^2$

$$\left(\frac{4}{9}\right)^7$$

12) $n^3 \cdot n^4$

$$n^7$$

13) $4 \cdot 4^2$

$$4^3$$

14) $z^{-3} \cdot z^4$

$$z$$

