

Name : _____

Score : _____

Teacher : _____

Date : _____

Exponents and Multiplication

Simplify. Your answer should contain only positive exponents.

1) $2n^3k^6 \cdot 7nk^4$

8) $6^3 \cdot 6^6$

2) $\left(\frac{1}{4}\right)^6 \cdot \left(\frac{1}{4}\right)^5 \cdot \left(\frac{1}{4}\right)^4$

9) $h^6z^5 \cdot 3h^3z^4 \cdot 5hz^3$

3) $c^5 \cdot c^3$

10) $6c^4 \cdot 7c^2k^3$

4) $4y \cdot 7y^4$

11) $5d^6 \cdot 6d^3 \cdot 4d^5$

5) $4h^5 \cdot 2h^6$

12) $g \cdot g^4$

6) $d^6 \cdot d^3 \cdot d^4$

13) $8n \cdot 9n^6$

7) $6 \cdot 6^2$

14) $6r^2g^4 \cdot 8r^6g^5$



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1) $2n^3k^6 \cdot 7nk^4$

$14n^4k^{10}$

2) $\left(\frac{1}{4}\right)^6 \cdot \left(\frac{1}{4}\right)^5 \cdot \left(\frac{1}{4}\right)^4$

$\left(\frac{1}{4}\right)^{15}$

3) $c^5 \cdot c^3$

c^8

4) $4y \cdot 7y^4$

$28y^5$

5) $4h^5 \cdot 2h^6$

$8h^{11}$

6) $d^6 \cdot d^3 \cdot d^4$

d^{13}

7) $6 \cdot 6^2$

6^3

8) $6^3 \cdot 6^6$

6^9

9) $h^6z^5 \cdot 3h^3z^4 \cdot 5hz^3$

$15h^{10}z^{12}$

10) $6c^4 \cdot 7c^2k^3$

$42c^6k^3$

11) $5d^6 \cdot 6d^3 \cdot 4d^5$

$120d^{14}$

12) $g \cdot g^4$

g^5

13) $8n \cdot 9n^6$

$72n^7$

14) $6r^2g^4 \cdot 8r^6g^5$

$48r^8g^9$

