Name : _____ Score : _____

Teacher : _____ Date : _____

Exponents and Multiplication

Simplify. Your answer should contain only positive exponents.

1) $5d \cdot 8d^{-5}$

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

3) $4z^{5}g^{2} \cdot 6z^{6}g^{3}$

4) $2z^{5} \cdot 6z^{-3}b^{4}$

5) $7y^{3}h^{2} \cdot 9yh^{5}$

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

7) $8g^{6}z^{-3} \cdot 5g^{-2}z^{4}$

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

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

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

11) $y^{4}c^{3} \cdot 3y^{2}c^{6} \cdot 8yc^{2}$

12) $bw \cdot 2b^{-6}w^{-5}$

13) $5k \cdot 8k^{-3}$

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

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Exponents and Multiplication

Simplify. Your answer should contain only positive exponents.

1) $5d \cdot 8d^{-5}$

$\frac{40}{d^4}$

2) $2 \cdot 2^6$

2^7

3) $4z^5g^2 \cdot 6z^6g^3$

$24z^{11}g^5$

4) $2z^5 \cdot 6z^{-3}b^4$

$12z^2b^4$

5) $7y^3h^2 \cdot 9yh^5$

$63y^4h^7$

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

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

7) $8g^6z^{-3} \cdot 5g^{-2}z^4$

$40g^4z$

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

$\frac{1}{y^8}$

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

$\left(\frac{1}{b}\right)^{12}$

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

$\left(\frac{1}{6}\right)^9$

11) $y^4c^3 \cdot 3y^2c^6 \cdot 8yc^2$

$24y^7c^{11}$

12) $bw \cdot 2b^{-6}w^{-5}$

$\frac{2}{b^5w^4}$

13) $5k \cdot 8k^{-3}$

$\frac{40}{k^2}$

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

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