

Name : _____

Score : _____

Teacher : _____

Date : _____

Exponents and Multiplication

Simplify. Your answer should contain only positive exponents.

1) $8c^4g^3 \cdot 4c^5g^6$

8) $\left(\frac{1}{8}\right)^3 \cdot \left(\frac{1}{8}\right)^2$

2) $8wz^6 \cdot 2w^2z^5$

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

3) $wc \cdot 8w^3c^5$

10) $3d \cdot 8d^4$

4) $w \cdot w^5$

11) $2 \cdot 2^4$

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

12) $\left(\frac{3}{7}\right)^6 \cdot \left(\frac{3}{7}\right)^4 \cdot \left(\frac{3}{7}\right)^5$

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

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

7) $8z^5c^4 \cdot 7zc^2$

14) $2d \cdot 3d^3$



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Simplify. Your answer should contain only positive exponents.

1) $8c^4g^3 \cdot 4c^5g^6$
 $32c^9g^9$

2) $8wz^6 \cdot 2w^2z^5$
 $16w^3z^{11}$

3) $wc \cdot 8w^3c^5$
 $8w^4c^6$

4) $w \cdot w^5$
 w^6

5) $\left(\frac{1}{2}\right)^3 \cdot \left(\frac{1}{2}\right)^5$
 $\left(\frac{1}{2}\right)^8$

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

7) $8z^5c^4 \cdot 7zc^2$
 $56z^6c^6$

8) $\left(\frac{1}{8}\right)^3 \cdot \left(\frac{1}{8}\right)^2$
 $\left(\frac{1}{8}\right)^5$

9) $b^6 \cdot b^5 \cdot b^2$
 b^{13}

10) $3d \cdot 8d^4$
 $24d^5$

11) $2 \cdot 2^4$
 2^5

12) $\left(\frac{3}{7}\right)^6 \cdot \left(\frac{3}{7}\right)^4 \cdot \left(\frac{3}{7}\right)^5$
 $\left(\frac{3}{7}\right)^{15}$

13) $\left(\frac{1}{3}\right)^5 \cdot \left(\frac{1}{3}\right)^6 \cdot \left(\frac{1}{3}\right)^2$
 $\left(\frac{1}{3}\right)^{13}$

14) $2d \cdot 3d^3$
 $6d^4$

