

Name : _____

Score : _____

Teacher : _____

Date : _____

Exponents and Multiplication

Simplify. Your answer should contain only positive exponents.

1) $r^{-4} \cdot r^5$

8) $2b^5 \cdot 4b^2$

2) $7c^5b^2 \cdot 8c^6b^3$

9) $8c \cdot 4c^{-3}$

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

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

4) $9z^4 \cdot 3z^{-6}$

11) $d \cdot d^{-3}$

5) $6c^{-2}d^3 \cdot 3cd^{-3}$

12) $5h^3d^5 \cdot 8hd^2$

6) $6bs^{-4} \cdot 8b^{-6}s^5$

13) $7^{-3} \cdot 7^6$

7) $4yz^2 \cdot 3y^4z^3$

14) $b^2 \cdot b^4$



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Exponents and Multiplication

Simplify. Your answer should contain only positive exponents.

1) $r^{-4} \cdot r^5$

r

2) $7c^5b^2 \cdot 8c^6b^3$

$56c^{11}b^5$

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

$\left(\frac{5}{7}\right)^8$

4) $9z^4 \cdot 3z^{-6}$

$\frac{27}{z^2}$

5) $6c^{-2}d^3 \cdot 3cd^{-3}$

$\frac{18}{c}$

6) $6bs^{-4} \cdot 8b^{-6}s^5$

$48 \frac{s}{b^5}$

7) $4yz^2 \cdot 3y^4z^3$

$12y^5z^5$

8) $2b^5 \cdot 4b^2$

$8b^7$

9) $8c \cdot 4c^{-3}$

$\frac{32}{c^2}$

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

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

11) $d \cdot d^{-3}$

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

12) $5h^3d^5 \cdot 8hd^2$

$40h^4d^7$

13) $7^{-3} \cdot 7^6$

7^3

14) $b^2 \cdot b^4$

b^6

