

Name : \_\_\_\_\_

## Exponents

T2L2S2

Evaluate using prime factorization.

1)  $\frac{512d^{10}}{256d^7} \cdot 81d^4$

\_\_\_\_\_

2)  $\frac{216w^{-5}}{z^3} \div \frac{27w^3}{z^5}$

\_\_\_\_\_

3)  $-324 \cdot \frac{16}{64}$

\_\_\_\_\_

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5)  $\frac{243b^{12}}{c^{-5}} \div \frac{9b^5}{c^2}$

\_\_\_\_\_

7)  $-\frac{128}{s} \div 8s^2$

\_\_\_\_\_

8)  $-\frac{28v^3}{50} \cdot \frac{225u^2}{2v^6}$

\_\_\_\_\_

**Exponents**

Evaluate using prime factorization.

1)  $\frac{512d^{10}}{256d^7} \cdot 81d^4$

**$162d^7$**

2)  $\frac{216w^{-5}}{z^3} \div \frac{27w^3}{z^5}$

**$8w^{-8}z^2$**

3)  $-324 \cdot \frac{16}{64}$

**$-81$**

5)  $\frac{243b^{12}}{c^{-5}} \div \frac{9b^5}{c^2}$

**$27b^7c^7$**

7)  $-\frac{128}{s} \div 8s^2$

**$-16s$**

8)  $-\frac{28v^3}{50} \cdot \frac{225u^2}{2v^6}$

**$-63u^2v^{-3}$**

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