

Name _____

Power of Products

Write the correct exponents for each variable

Write the coefficient if necessary.

1) $(2m^2n^7)^4$ $\boxed{16} m^{\boxed{8}} n^{\boxed{28}}$	2) $(3p^2q)^4$ $\boxed{81} p^{\boxed{8}} q^{\boxed{4}}$
3) $(4xy^2)^2$ $\boxed{16} x^{\boxed{2}} y^{\boxed{4}}$	4) $(5abc)^2$ $\boxed{25} a^{\boxed{2}} b^{\boxed{2}} c^{\boxed{2}}$
5) $(3z)^4$ $\boxed{81} z^{\boxed{4}}$	6) $(4wx^2)^2$ $\boxed{16} w^{\boxed{2}} x^{\boxed{4}}$
7) $(2l^3m^2n^4)^8$ $\boxed{256} l^{\boxed{24}} m^{\boxed{16}} n^{\boxed{32}}$	8) $(2def^2)^3$ $\boxed{8} d^{\boxed{3}} e^{\boxed{3}} f^{\boxed{6}}$