Name : _____

Simplifying Expressions: Exponents

Simplify each expression.

1) $\dfrac{45x^{10}yz^8}{3x^5y^3z^4}$

2) $(5v^4w^5)(2u^5w^4)(3u^4v^5)$

3) $(6b^6c^4d^7)(4b^5c^4d^8)$

4) $\dfrac{12p^{15}q^9r^{13}}{\ }$

5) $\dfrac{3n^8m^5}{15n^8m^{11}}$

7) $(7p^9q^8)(p^2q\ \ \ )$

9) $\dfrac{10(u^2v^5)^2}{10u^4v^8}$

10) $(5x^9y^7z^5)(-x^8y^7z^3)(5x^4y^5z^4)$