# monomials
## •multiplication•

Example:

$(4x^2y^5)(4x^3y) =$

1. Multiply the coefficents.

$(4x^2y^5)(4x^3y) = 16$

2. Multiply the variables by adding the exponents.

$(x^2)(x^3) = x^{2+3} = x^5$

$(y^5)(y) = y^{5+1} = y^6$

Answer: $16x^5y^6$

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## Multiply the monomials.

**1.** $(3)(4x) =$ _____

**2.** $(5xy^3)(2x^2y) =$ _____

**3.** $(xy^8)(7xy^3) =$ _____

**4.** $(y^3)(y^3) =$ _____

**5.** $(3x)(4x^4y) =$ _____

**6.** $(6xy^4)(2x^3y^6) =$ _____

**7.** $(x^4y^5)(xy) =$ _____

**8.** $(2xy^5)(8x^3y) =$ _____

**9.** $(10xy^5)(2xy) =$ _____

**10.** $(7x)(2xy) =$ _____