Name _____

Multiplying Monomials Lesson

Multiply: (4xy²) (2xy³)

Step 1) **Rearrange the terms.** Everything is being multiplied. Because multiplication is commutative, the order doesn't matter. We will start by rearranging the terms in such a way that they are easier to work with.



$$(4xy^2) (2xy^3) = \underbrace{4 \bullet 2}_{\gamma} \bullet \underbrace{x \bullet x}_{\gamma} \bullet \underbrace{y^2 \bullet y^3}_{\gamma}$$

numbers x terms remaining y terms

Step 2) Combine the pieces by multiplying them.



Final answer: 8x²y⁵

