Exponent Laws with Variable Bases

Independent Set 3.T1

Name_____
Date_____
Period_____

Six questions, on your own, in silence. Show the step that does the work.

1. Write as one power. $x^6 \cdot x^9$

2. Write as a single monomial. $(a^5)^4$

3. Write as a single monomial. $(4y^6)^3$

4. Write as a single monomial. $(2m^4)(5m^3)$

5. Write as a single monomial. $\frac{20x^9}{4x^3}$

6. Find the value of n . $y^4 \cdot y^n = y^{10}$