NAME

Activity: LAWS OF EXPONENTS

➤ $a^m \cdot a^n = a^{m+n}$ ➤ $\dfrac{a^m}{a^n} = a^{m-n}$

➤ $(a^m)^n = a^{m \cdot n}$

➤ $(a^m b^n)^p = a^{mp} b^{np}$ ➤ $\left(\dfrac{a^m}{b^n}\right)^p = \dfrac{a^{mp}}{b^{np}}$

Simplify the following expressions by applying the laws of exponents.

1. $a^3 \cdot a^5 = a$

2. $a^3 b \cdot a b^6 = a \quad b$

3. $(2b^5)^3 = \quad b$

4. $(a^4 b^2)^3 = a \quad b$

5. $(a^2)^3 (a^2)^2 = a$

6. $(3b^2)(2b) = \quad b$

7. $\dfrac{a^7}{a^3} = a$

8. $\left(\dfrac{a^3 b^3}{ab}\right)^2 = a \quad b$

9. $\dfrac{(4a^4)^2}{(2a)^3} = \quad a$

10. $(5a^2 b c^4)^0 =$

How many attempts?_____

How well did you do?   😆 Need Help   🙂 Just OK!   😁 Splendid

I HAVE TO KEEP IN MIND THAT...