Grade 3 Properties of Multiplication Lesson 2: Zero Property of Multiplication

Rationale: Today's lesson teaches students to use the Zero property to solve a times 0 basic fact or a multiplication problem.

Objective: I can multiply any number by ZERO, and the PRODUCT will be ZERO!

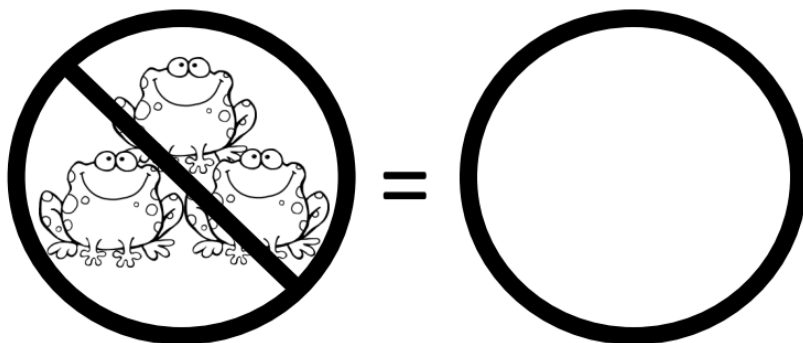**Vocabulary:** zero property, multiplication, product

Materials: Dry erase boards, Copy of the Must Do worksheet

Lesson:.

1. Recall the Identity Property previously taught. Refer to the posters and ask students to explain the Identity Property for Multiplication. (*The IDENTITY PROPERTY OF MULTIPLICATION tells me that I can multiply ONE by any number, and that number keeps its identity!*)

2. Tell students that, "Today you will learn that any number multiplied by ZERO has a PRODECT of ZERO:."

3. Project:

$$0 \times 3 = 0$$ If I have ZERO groups of 3 frogs, I have ZERO frogs.

4. Project the following problems: Ask students to "Pick one problem below. Tell a multiplication story to match the problems. Solve on your white

board."

9 x 0 = _____   1 x 0 = _____   16 x 0 = _____

21 x 0 = _____   7 x 0 = _____   12 x 0 = _____

5. Must Do