Even and Odd Numbers Closure Activity  

**Task 1A**
Describe how you can tell that 6 and 8 are even numbers.

**Task 1B**
Add 6 and 8. Is their sum an even or odd number? How do you know?

**Task 1C**
Pick two other even numbers and add them. Is their sum even or odd? How do you know?

**Task 1D**
Can you find any two even numbers whose sum is not an even number? Why not?

**Task 1E**
Explain why the even numbers are closed under addition.
Task 2A
Predict whether or not you think the odd numbers are closed under addition.

Task 2B
Using the same process you used in Task 1, determine whether or not the odd numbers are closed under addition. Explain how you determined your answer.

Task 3A
Determine whether or not the even numbers are closed under multiplication. Explain how you determined your answer.

Task 3B
Determine whether or not the odd numbers are closed under multiplication. Explain how you determined your answer.
Even and Odd Numbers Closure Activity

Name ______________________

Task 4
Annie added 214 and 3368 and got 3583. Without adding, how can you use closure to tell that her answer is incorrect?

Task 5A
List 2 things you learned about mathematics by doing this activity.

Task 5B
List any questions you have about this activity.