

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.

Task 4

Annie added 214 and 3368 and got 3583. Without adding, how can you use closure 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