

Name _____

Grade _____

ALGEBRA PROPERTY

Please read the following questions carefully and answer them completely, using your own words whenever possible. Feel free to express your own thoughts and opinions.

- 1 What are the three basic properties in algebra that we often use? Briefly explain each property!

- 2 What is the commutative property? In your own words, if we swap the numbers we add, will the result still be the same? For example, is $2 + 3$ the same as $3 + 2$? Why is that?

3 If we have a number multiplied by the sum of two numbers, can we multiply that number by each number in the sum and then add the results? For example, is $2 \times (3 + 4)$ the same as $(2 \times 3) + (2 \times 4)$? Why is that?

4 If we have many numbers to add, does the way we group them affect the result? For example, is $(2 + 3) + 4$ the same as $2 + (3 + 4)$? Why is that?