Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_

Mr. Tallman Math 7-8A

**Lesson #8 – Properties of Real Numbers**

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| --- | --- | --- |
|  | **Property** | **Examples** |
| 1 | **Commutative Property of Addition** |  |
| 2 | **Commutative Property of Multiplication** |  |
| 3 | **Associative Property of Addition** |  |
| 4 | **Associative Property of Multiplication** |  |
| 5 | **Distributive Property** |  |
| 6 | **Additive Identity Property** |  |
| 7 | **Multiplicative Identity Property** |  |
| 8 | **Additive Inverse Property** |  |
| 9 | **Zero Property** |  |

**For Questions 1-9, write the property that is represented by the given equation.**

1) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

8) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

9) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**For questions 10-13, complete each equation to make it a true statement.**

10) \_\_\_\_\_\_\_\_\_\_)

11) \_\_\_\_\_\_\_\_\_\_\_\_ =

12) \_\_\_\_\_\_\_\_\_\_\_\_

13) \_\_\_\_\_\_\_\_\_\_\_\_\_ = 0

**Questions 13-16: Multiple Choice**

13) Which illustrates the associative property?

|  |  |
| --- | --- |
| A) | B) |
| C) 6.5 + 7.2 = 7.2 + 6.5 | D) (1.2 + 8.6) + 9 = 7 – (2.9 + 4.1) |

14) Which illustrates the **multiplicative identity property**?

|  |  |
| --- | --- |
| A) | B) |
| C) | D) |

15) Which property is being illustrated by the equation ?

|  |  |
| --- | --- |
| A) Associative | B) Commutative |
| C) Identity | D) Distributive |

16) Which property is being illustrated by the equation ?

|  |  |
| --- | --- |
| A) Commutative Property of Multiplication | B) Associative Property of Multiplication |
| C) Zero Property of Multiplication | D) Identity Property of Multiplication |

**Matching Column: Match the EXPRESSION with the correct PROPERTY.**

|  |  |
| --- | --- |
| 17) | * Zero Property of Multiplication |
| 18) | * Additive Inverse Property |
| 19) | * Commutative Property |
| 20) | * Distributive Property |