

PROPERTIES OF REAL NUMBERS

1) Match the statements with the property

Identify the property of equality used to justify each statement.

$$\text{If } 4 + 17 = 21, \text{ then } 21 = 4 + 17$$

Reflexive Property

$$x + 3 = x + 3$$

Transitive Property

$$\text{If } 6 + 2 = 4 + 4 \text{ and } 4 + 4 = 8, \text{ then } 6 + 2 = 8.$$

Symmetric Property

2) Fill in the blanks. Use the given property of equality to complete each statement.

$$5. \text{ If } 23 + 14 = 37, \text{ then } 37 = 23 + \underline{\quad? \quad};$$

Symmetric Property of Equality

$$\text{If } 43 + 9 = 10 + 42 \text{ and } 10 + 42 = 52, \text{ then } 43 + 9 = \underline{\quad? \quad};$$

Transitive Property of Equality

$$2m - 1 = \underline{\quad? \quad}; \text{ Reflexive Property of Equality}$$

$$\text{If } a + 5 = b + 3 \text{ and } a + 5 = 12, \text{ then } b + 3 = \underline{\quad? \quad};$$

Transitive Property of Equality

3) Match the statements with the property

$$6 + (-6) = 0$$

Multiplicative Inverse

$$14 + 0 = 14$$

Multiplicative Identity Property

$$1 \cdot 6 = 6$$

Additive Identity Property

$$7 \cdot 0 = 0$$

Additive Inverse Property

$$\frac{3}{4} \cdot \frac{4}{3} = 1$$

Multiplicative Property of Zero