

PROPERTIES

def

COMMUTATIVE PROPERTY: THE ORDER IN WHICH YOU ADD OR MULTIPLY DOES NOT CHANGE THE SUM OR PRODUCT.

$$a+b = b+a$$

$$a \times b = b \times a$$

* THINK "COMMUTE" MOVE !!!

def

ASSOCIATIVE PROPERTY: THE WAY YOU GROUP NUMBERS WHEN YOU ADD OR MULTIPLY DOES NOT CHANGE THE SUM OR PRODUCT.

$$(a+b)+c = a+(b+c)$$

$$(ab)c = a(bc)$$

* THINK "ASSOCIATE" HANG OUT "GROUP" !!!

def

IDENTITY PROPERTY OF ADDITION: ADDING ZERO TO ANY NUMBER DOES NOT CHANGE ITS VALUE.

$$3+0 = 3$$

$$49+0 = 49$$

def

IDENTITY PROPERTY OF MULTIPLICATION: MULTIPLYING ONE BY ANY NUMBER DOES NOT CHANGE ITS VALUE.

$$3 \times 1 = 3$$

$$49 \times 1 = 49$$

YOU TRY:

WHICH PROPERTY?

1) $3+4 = 4+3$ COMMUTATIVE PROP OF +

2) $2(9) = 9(2)$ COMMUTATIVE PROP OF X

3) $4+0 = 4$ IDENTITY (+)

4) $(2+5)+7 = 2+(5+7)$ ASSOCIATIVE PROP OF +

5) $3 \cdot 1 = 3$ IDENTITY (X)

6) $3(4 \cdot 5) = (3 \cdot 4)5$ ASSOCIATIVE PROP OF X

7) $3(4 \cdot 5) = (4 \cdot 5)3$ COMMUTATIVE PROP OF X

8) $g+h+2 = g+2+h$ COMMUTATIVE PROP OF +