

SWBAT: USE the
commutative, associative
and Identity Properties
of ADDITION and
MULTIPLICATION

Commutative Property

ADD $6+4=10$ $a+b=b+a$
 $4+6=10$

you can change the order
and get the same sum

$6 \cdot 4 = 24$ $a(b) = b(a)$
 $4 \cdot 6 = 24$ for Mult

Associative Property

you can change the
grouping and get the
same product or sum.

ADD: $(2+4)+6=12$
 $2+(4+6)=12$

MULT.
 $(3 \cdot 7)2 = 42$
 $3(7 \cdot 2) = 42$

Identity Property

any number added to zero is that #.

$$2 + 0 = 2$$

$$a + 0 = a$$

$$0 + \Delta = \Delta$$

$$2 \cdot 1 = 2$$

$$a \cdot 1 = a$$

$$\square \cdot 1 = \square$$

$$\triangle + \bigcirc = \bigcirc + \triangle$$

$$\square \cdot 1 = 1 \cdot \square$$

$$(\triangle \cdot \square) \cdot \bigcirc =$$

$$\triangle \cdot (\square \cdot \bigcirc)$$