**YEAR 4**

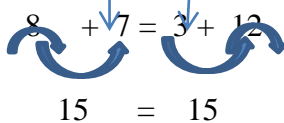**Topic**: **Algebra**

**Sub- topic**: **Associative Property**

Associative Property:
– is the rule that states that the grouping of numbers does not affect the outcome when adding or multiplying.

Eg. (3 + 5) + 7 = 3 + (5 + 7)          (2 x 3) x 4 = 4 x (3 x 2)
        8 + 7 = 3 + 12                              6  x  4 = 4 x  6
        15  =  15                                          24  =  24

That is : (3 + 5) + 7 = 3 + (5 + 7 )

8     + 7 = 3 + 12

15     =   15

NOTE: If both the outcomes (answers) are same then the equation is equal (=).

And if outcomes are not equal:

Example

$2 + (3+ 1)$ _____ $(2 +3)+2$

        6    $\neq$    7

Working needs to be done in order to answer the following questions

Write = or ≠ for the given expressions.

a)      (3 + 4) + 5          ☐          3 + (5 + 6)

b)      (9 + 5) + 6          ☐          9 + (5 + 6)

c)      13 + (42 + 90)          ☐          (13 + 24) + 90

d)      (3 x 4) x 2          ☐          3 x (4 x 2)

e)      (2 x 2) x 3          ☐          2 x (3 x 3)

f)      (4 x 5) x 2          ☐          4 x (5 x 3)