Relate Addition to Multiplication
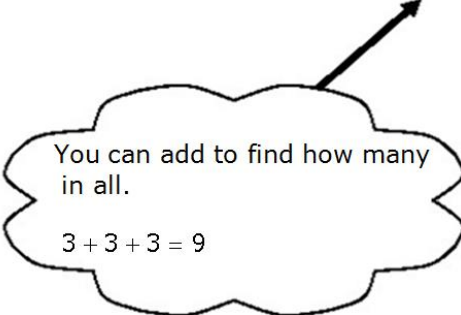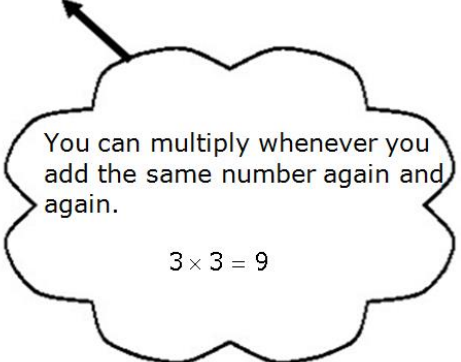
Use counters to model 3 groups of 3. Then write an addition sentence and a multiplication sentence.

3 groups of 3: ●●●   ●●●   ●●●

You can add to find how many in all.

$3 + 3 + 3 = 9$

You can multiply whenever you add the same number again and again.

$3 \times 3 = 9$

So, $3 + 3 + 3 = 9$ and $3 \times 3 = 9$.

Examples:

A- Use counters to model. Then write an addition sentence and a multiplication sentence for each.

1) 3 groups of 4:   4 + 4 + 4 =12   3 x 4 =12

2) 2 groups of 5:   5 + 5 =10   2 x 5   =10

3) 3 groups of 7:   7 +7+ 7 =21   3 x 7 =21

B- Write a multiplication sentence for each.

4) 2 + 2 + 2 + 2 =8   4 x 2 =8

5) 9 + 9 + 9 =27   3 x 9 = 27

6) 4 + 4 + 4 + 4=16   4 x4 = 16

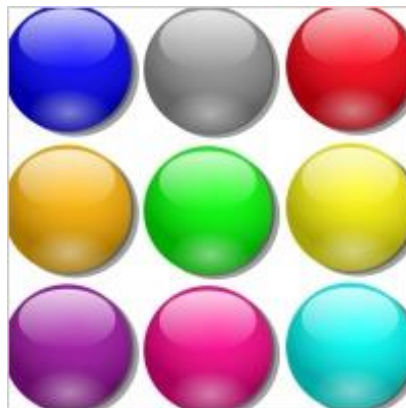7) 8 + 8 + 8=24   3 x 8 =24

My Real Life

A) Sandy makes necklaces. She puts 4 green beads on each necklace. How many green beads does Sandy need to make 5 necklaces?

$5 \times 4 = 20$ green beads

B) Dany counts his marbles. He puts them in groups of 5. He forms 6 groups. How many marbles does Dany have?

$5 \times 6 = 30$ marbles

Grade 3