

## Mathematical Induction

Step 1: In this step we show by direct substitution that the proposed formula is true for some value of  $n$  (usually the smallest).  
Step 2: Here we assume that the proposed formula is true for some integer value of  $n$ .  
Step 3: Finally we prove the result is true for  $n=k+1$ .

Ex 1: Use the mathematical induction to prove each of the following summation form

$$\sum_{i=1}^n i = 1 + 2 + 3 + \dots + n = \frac{n(n+1)}{2}$$

Sol: Let us prove the result is true for  $n=1$ .

$$\text{LHS} = 1$$

$$\text{RHS} = \frac{1(1+1)}{2} = \frac{2}{2} = 1 \quad \therefore \text{LHS} = \text{RHS}$$

Hence the result is true for  $n=1$ .

Step 2: We assume the result is true for some integer  $n=k$  i.e.

$$1 + 2 + 3 + \dots + k = \frac{k(k+1)}{2}$$

Step 3: We now prove the result is true for  $n=k+1$ .

$$1 + 2 + 3 + \dots + k + (k+1) = \frac{(k+1)(k+1+1)}{2}$$

$$= \frac{1}{2} (k+1)(k+2)$$

$$\begin{aligned} \underbrace{1 + 2 + 3 + \dots + k + (k+1)}_{= \frac{1}{2} k(k+1) \text{ by step 2}} &= \frac{k^2 + 2k + 1 + 2}{2} = \frac{k^2 + 2k + 2}{2} \quad \text{RHS} \end{aligned}$$

$$= \frac{1}{2} (k+1)(k+2)$$

$$= \frac{1}{2} [k^2 + k] + \frac{(k+1)}{2} = \frac{k^2 + 1 + 2k + 2}{2} = \frac{k^2 + 2k + 2}{2}$$

is true for all the positive integer values of  $n$ .

# June 2013 Common Test Mathematics P

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