

BALABHADRA SKILL DEVELOPMENT ACADEMY
MATHS FORMULA - 7
ARITHMETIC

AVERAGE

SI	Situation	Formula
01	The average of first n natural numbers is	$\frac{n+1}{2}$
02	The average of consecutive natural even numbers up to n is	$\left(\frac{n}{2} + 1\right)$
03	The average of first n natural even numbers is	$(n+1)$
04	The average of consecutive natural odd numbers up to n is	$\frac{n+1}{2}$
05	The average of first n natural odd numbers is	n
06	If average of n_1 and n_2 observations is x_1 and x_2 respectively, then the average of (n_1+n_2) observations will be	$\frac{n_1x_1 + n_2x_2}{n_1 + n_2}$
07	The average of first n multiples of x is	$\frac{x(n+1)}{2}$
08	The average age (or weight) of x members of a group is y . If the average of their ages (or weight) becomes z on including (or excluding) a person, then the age (or weight) of included (or excluded) person	$= z \pm x(z - y)$