

Answer on Question #84110 – Math – Statistics and Probability

Question

For the following series of observations, calculate the 4 yearly centred moving averages: (5) Year: 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 Annual Sales (Rs. Crores) 2 6 1 5 3 7 2 6 4 8 3

Solution

$$MA_{t+0.5} = \frac{S_{t-1} + S_t + S_{t+1} + S_{t+2}}{4}$$

Year	Sales	Moving Average
1990	2	
1991	6	3.5
1992	1	3.75
1993	5	4
1994	3	4.25
1995	7	4.5
1996	2	4.75
1997	6	5
1998	4	5.25
1999	8	
2000	3	