

① Calculate 5-Year moving Average for the following data

Year	Production	5 year moving Total	5 year moving Average
1977	14	—	—
1978	17	—	—
1979	22	107	21.4
1980	28	111	22.2
1981	26	123	24.6
1982	18	125	25
1983	29	122	24.4
1984	24	125	25
1985	25	137	27.4
1986	29	131	26.2
1987	30	—	—
1988	23	—	—

② For the given data, calculate the weighted average for the period 3. The weights are 1, 4, 1

Values	3 Period Weighted Moving Totals	Weighted moving Average
2	—	—
6	$(2 \times 1) + (6 \times 4) + (1 \times 1) = 27$	$27/6 = 4.5$
1	$(1 \times 6) + (4 \times 1) + (1 \times 5) = 15$	$15/6 = 2.5$
5	$(1 \times 1) + (4 \times 5) + (1 \times 3) = 24$	$24/6 = 4.0$
3	$(1 \times 5) + (4 \times 3) + (1 \times 7) = 24$	$24/6 = 4.0$
7	$(1 \times 1) + (4 \times 7) + (1 \times 2) = 33$	$33/6 = 5.5$
2	—	—