

NUMERICAL SMOOTHING WITH MOVING MEANS – EXAMPLE 1

For the last 10 text messages sent, the number of letters in the messages was counted.

SMS	1	2	3	4	5	6	7	8	9	10
Letters	88	79	83	80	73	71	82	68	71	66

Task 1

Perform a 2-point centred moving average smooth

Message	Letters	Smoothed	Centred
1	88		
2	79		
3	83		
4	80		
5	73		
6	71		
7	82		
8	68		
9	71		
10	66		

Task 2

Perform a 3-point moving average smooth

Message	Letters	Smoothed
1	88	
2	79	
3	83	
4	80	
5	73	
6	71	
7	82	
8	68	
9	71	
10	66	

Task 3

Perform a 4-point centred moving average smooth

Message	Letters	Smoothed	Centred
1	88		
2	79		
3	83		
4	80		
5	73		
6	71		
7	82		
8	68		
9	71		
10	66		

Task 4

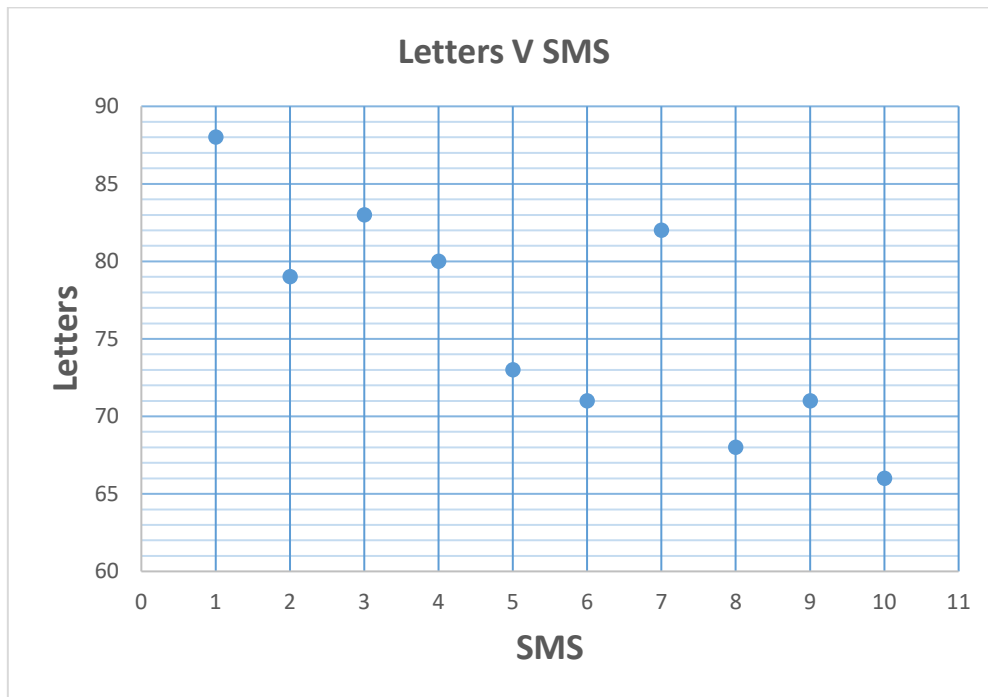
Perform a 5-point moving average smooth

Message	Letters	Smoothed
1	88	
2	79	
3	83	
4	80	
5	73	
6	71	
7	82	
8	68	
9	71	
10	66	

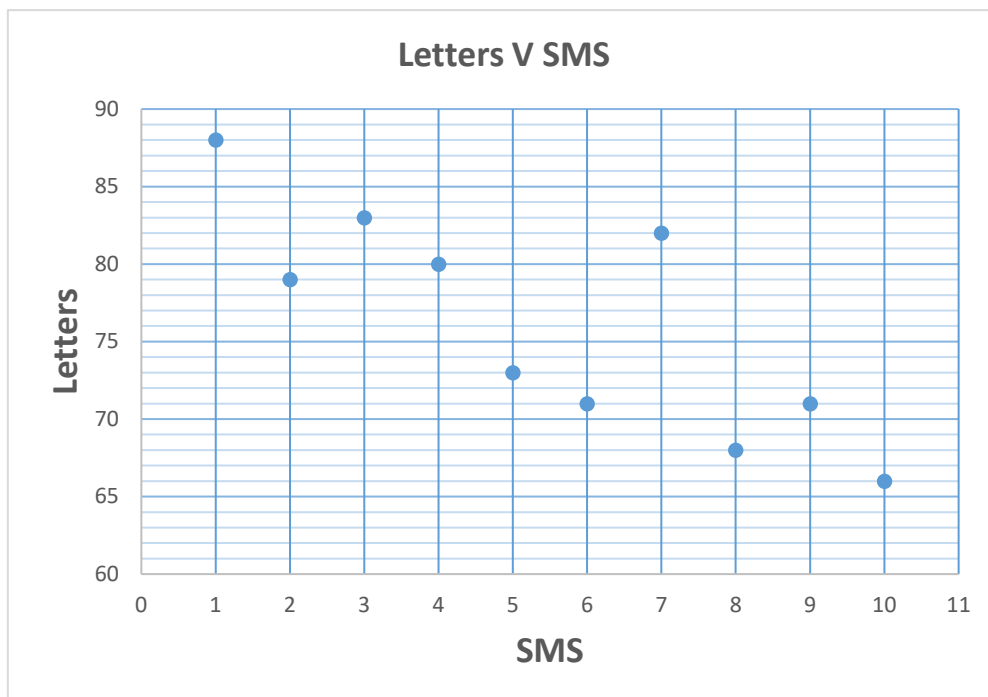
For the last 10 text messages sent, the number of letters in the messages was counted.

SMS	1	2	3	4	5	6	7	8	9	10
Letters	88	79	83	80	73	71	82	68	71	66

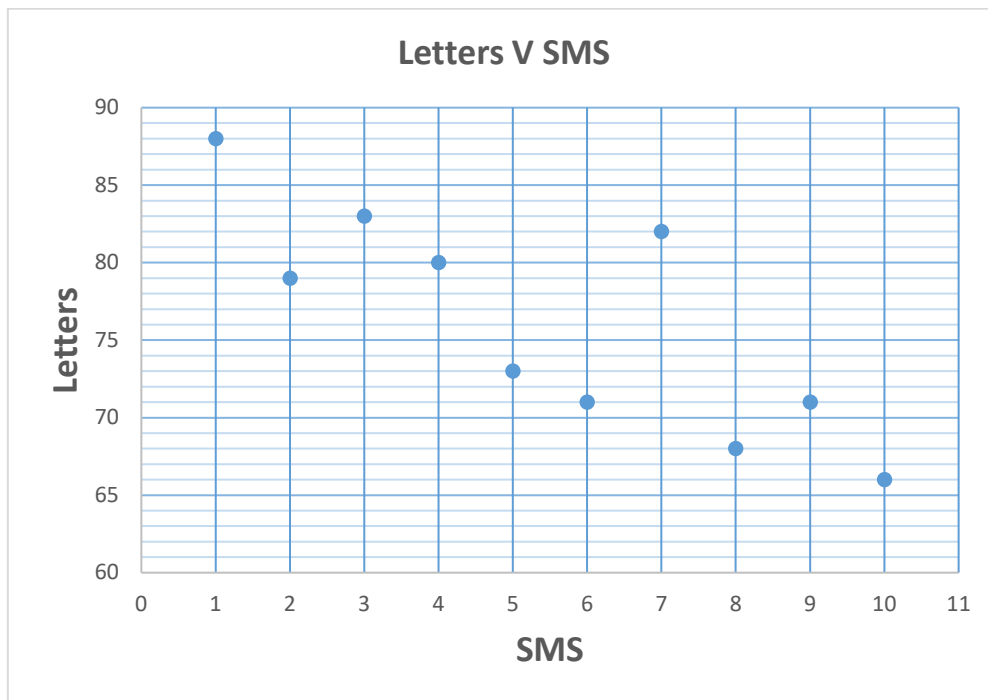
Task 5 Graph the 2-point centred moving average smooth



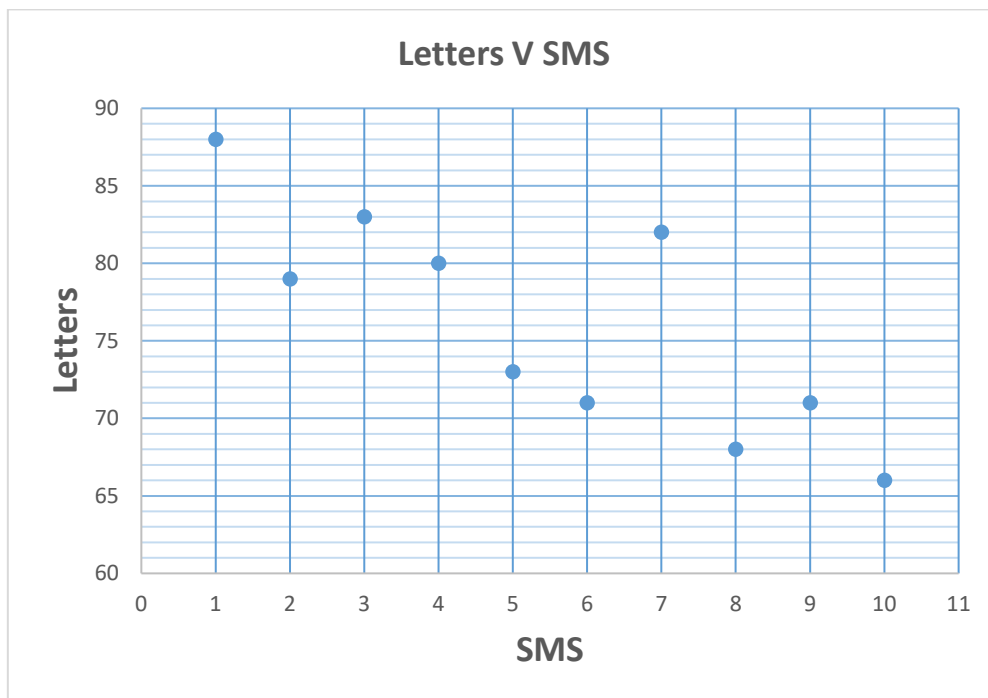
Task 6 Graph the 3-point moving average smooth



Task 7 Graph the 4-point centred moving average smooth.

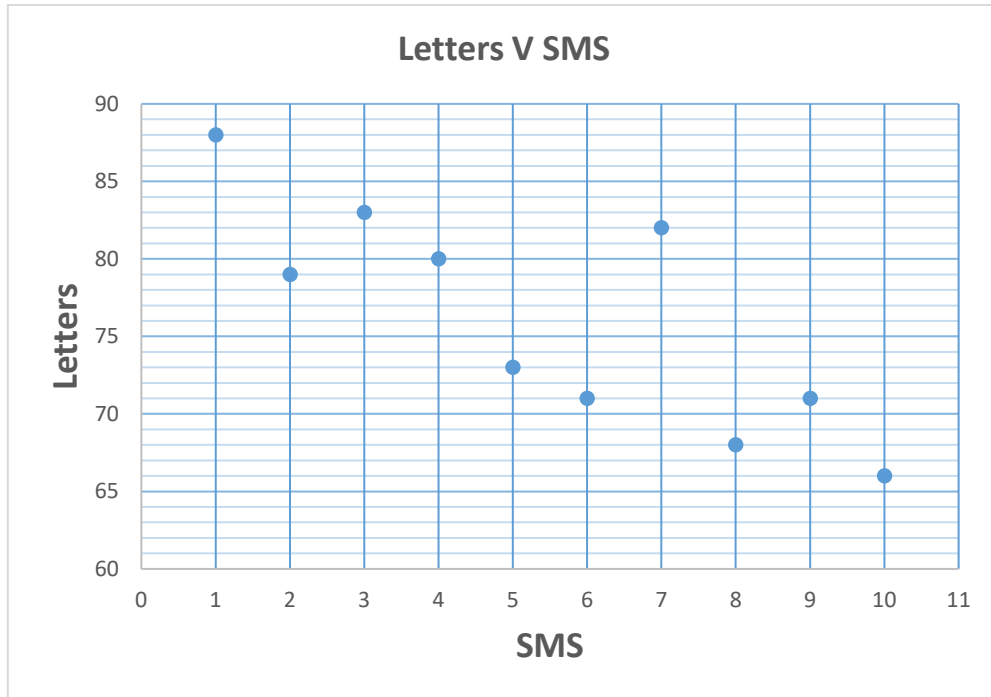


Task 8 Graph the 5-point moving average smooth



GRAPHICAL SMOOTHING WITH MOVING MEDIAN

Task 9 Perform a 3-point median smooth on the below graph



Task 10 Perform a 5-point median smooth on the below graph

