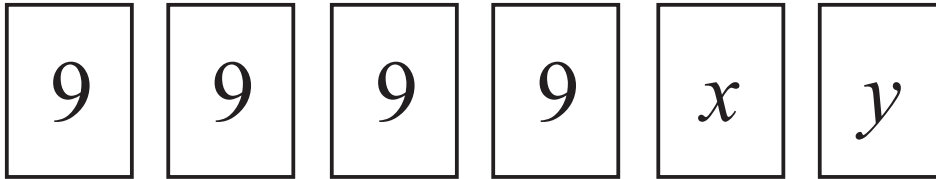


SAMPLE PAPER 1: PAPER 2

QUESTION 5 (25 MARKS)



Question 5 (a)

(i) Median = $\frac{9+9}{2} = 9$

(ii) Mode = 9

(iii) Range cannot be worked out without knowing the values of x and y .

Possibilities for arranging the numbers in ascending order:

- 9, 9, 9, 9, x, y
- x, y, 9, 9, 9, 9
- x, 9, 9, 9, 9, y
- y, 9, 9, 9, 9, x
- 9, 9, 9, 9, 9, 9

Question 5 (b)

Mean = 9

Therefore sum = $9 \times 6 = 54$

$x + y = 54 - 36 = 18$

Possibilities for x and y :

x	1	2	3	4	5	6	7	8	9
y	17	16	15	14	13	12	11	10	9

OR

x	17	16	15	14	13	12	11	10	9
y	1	2	3	4	5	6	7	8	9

Greatest range = $[1, 17]$

$R = 17 - 1 = 16$

Question 5 (c)

$R = x - y = 6$

$\therefore 2x = 24 \Rightarrow x = 12$

$\therefore y = 6$