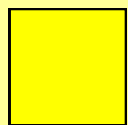


Comparing Back to Back Stem and Leaf Diagrams

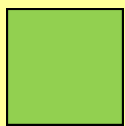
www.cazoommaths.com/us

Stem and Leaf of Test Scores in Two Classes

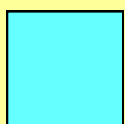
Class A					Class B					
					Key 11 5 Means 115					
1 0					8	1 3 4 6				
6 3 3					9	0	2 5 8 9			
9 9 9 7					10	0	0 0 1			
8	6	6	5	1 0	11	4	6	7 7		
9 5 4 2					12	8 8				



Lower quartile - The amount of numbers add 1 then multiply by $\frac{1}{4}$ $(19 + 1) \times \frac{1}{4} = 5\text{th position}$



Median - The amount of numbers add 1 then multiple by $\frac{1}{2}$ $(19 + 1) \times \frac{1}{2} = 10\text{th position}$



Upper Quartile - The amount of numbers add 1 then multiply by $\frac{3}{4}$ $(19 + 1) \times \frac{3}{4} = 15\text{th position}$

Class A Interquartile Range =

$$118 - 96 = 22$$

Class B Interquartile Range =

$$116 - 90 = 26$$