The skills in this series of exercises appear frequently.

These are the GIFTS you must take to succeed.

Finance and Statistics Unit

<u>Exercise 8</u>

<u>Median, Quartiles and Boxplots</u> (Non-Calculator)

For each, find the median, the upper and lower quartiles and calculate the interquartile range:

1.	*1*	*4*	*7*	*8*	*9*	*10*	*13*				
2.	*3*	*3*	*4*	*4*	*5*	*6*	*7*				
3.	*24*	*20*	*17*	*22*	*18*	*27*					
4.	*23*	*15*	*22*	*29*	*20*	*21*					
5.	*8*	*7*	*6*	*11*	*2*	*5*	*4*	*6*	*9*		
6.	*12*	*14*	*17*	*20*	*9*	*7*	*10*	*8*	*14*		
7.	*12*	*10*	*9*	*10*	*8*	*5*	*7*	*9*	*13*		
8.	*7*	*9*	*12*	*4*	*5*	*1*	*8*	*3*	*10*	*1*	
9.	*19*	*13*	*4*	*18*	*34*	*23*	*4*	*31*	*22*	*17*	
10.	*18*	*4*	*11*	*1*	*16*	*20*	*14*	*8*	*15*	*14*	*9*

<u>Applying Question</u>

The age of people watching a late-night horror movie at a cinema are shown.

Ages at Screening

2	0	3	4	6	7	8
3	2	3	8			
4	1	4	4	8	9	
5	1					

4 | 8 means 48 years old *n = 15*

(a) State:
the median
the lower quartile
the upper quartile.

(b) Construct a boxplot for this data.