For each problem, find the equation for the line of best fit and the correlation coefficient:

1)	Years As a Salesman	Annual Salary (in thousands)	2)	r
	6	45		
	13	75		
	19	93		
	17	86		
	8	58		
	15	83		
	3	32		

Hours Spent on social media sites per Week	Cumulative Average			
9	77			
6	88			
8	81			
14	65			
18	71			
3	96			
4	94			
19	59			

3)	Hours Spent Exercising per Week	Weight	4)
	3	190	
	9	182	
	4	194	
	7	230	
	6	199	
	14	170	
	2	184	

Hours					
Spent	Cumulative				
Studying	Average				
per Week					
7.5	89				
10	96				
2	70				
14	99				
18	71				
0	68				
6	83				
11	96				

Making a Box and Whisker Plot

Making a Box and Whisker plot from a set of data is all about medians. You find the median for the entire set of data (which means you need the terms in order from smallest to largest). Then you find the median for the lower half of the data and the median for the upper half of the data.

So we need the data in order from smallest to biggest and find five key points.

1) Low 2) High	est value						
2) Ingr 3) Med	lian the da	ata.					
4) Low	er Quarti	(left whisker)					
5) Upp	er Quartil	(right whisker)					
•	The box A line is the box) The LQ a	marks o drawn i and UQ	off the 2 ⁿ n the bo make up	^d and 3 rd x where the whi	¹ quartiles. the media iskers.	n is (it I	DOES NOT have to be in the middle of
	Data: sco	ores from	n a math	test:			lowest:
50, 65	, 68, 72,	79, 80), 84, 94	4, 94, 9	6, 99, 10	0	highest:
							Median:
							LQ:
							UQ:
40	50	60	70	80	90	100	
Data:	Points sco	ored by	the NY J	ets in 16	6 regular s	eason ga	ames:
0, 3, 7	7, 13, 13	, 20, 24	4, 24, 3	0, 31, 3	33, 34, 30	5, 38, 4	0, 40
							lowest:
							highest:
							Median:
							LQ:
							UQ:
0 5	10	15	20	25 30) 35	40	

Nan Reg	ne ressic	ons ai	nd Box	x and	Whis	ker						Algebra 1
Mak Data	e a bo a: Mea	ox and an ter	d whisk mperat	tures f	t for t or Ma	he fol Irch 7-	lowing 22.	g data.				
31	31	-	33	34	3	4	34	35	35	39 39	40	42 44 44 45 47
												lowest:
												highest:
												Median:
												LQ:
												UQ:
30	32	34	36	38	40	42	44	46	48			

4) Make a box and whisker plot for the following set of pizzas ordered each day during the 28 days of February.

10 10 11 13 13 15 16 20 20 20 20 21 23 25 27 28 28 30 31 32 33 37 38 40 49 50 51 55

lowest: _____ highest: _____

Median: _____

LQ: _____

UQ: _____

5 10 15 20 25 30 35 40 45 50 55 60