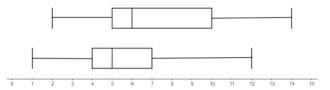
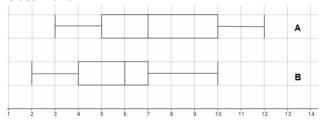
Box Plots – www.m4ths.com – Steve Blades ©

(1) The box plots below show the performances of 2 difference classes (Class A and B) in a maths test. The test was out of 20.



The Highest score in class A was 12.

- (a) label the two box plots A and B
- (b) Write down the median score for both classes.
- (c) Find the Lower Quartile (LQ) for each class
- (d) Find the Upper Quartile (UQ) for each class
- (e) HENCE, find the IQR for each class.
- (f) Which class has the better average score?
- (g) Which class has the most consistent score?
- (h) In one class, 75% of students scored 7 or less. Which class was this?
- (2) The box plots shows the science test scores of Class A and B.



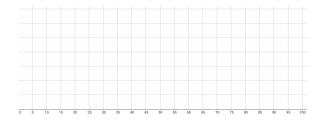
(a) Complete the table below

	Class	Lowest Score	LQ	Median	UQ	Highest Score	IQR
Ì	Α	30010				30010	
ĺ	В						

- (b) On average, which class was better?
- (c) Which class was more consistent?

(3) Use the information below to draw 3 box plots.

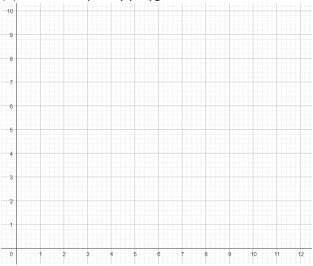
	Lowest Value	Highest Value	Lower Quartile	Median (Q2)	Upper Quartile	IQR
			(Q1)	()	(Q3)	
Α	12	92	23	37	54	
В	22	84	37	43		12
С	9	98		28	30	16



Frequency Polygons

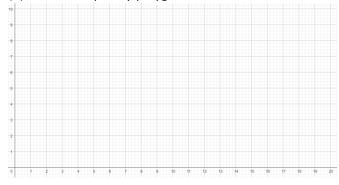
Height	Frequency
$0 < H \le 4$	8
$4 < H \le 6$	6
$6 < H \le 8$	2
$8 < H \le 12$	4

(1) Draw a frequency polygon on the axis below



Height	Frequency		
$0 < H \le 3$	8		
$3 < H \le 10$	6		
$10 < H \le 16$	2		
$16 < H \le 20$	4		

(2) Draw a frequency polygon on the axis below



Estimated Mean

(1) Find the estimated mean from the table below

Height	Frequency	
$0 < H \le 4$	8	
$4 < H \le 6$	6	
$6 < H \le 8$	2	
$8 < H \le 12$	4	

(2) Find the estimated mean from the table below

Height	Frequency	
$0 < H \le 3$	8	
$3 < H \le 10$	6	
$10 < H \le 16$	2	
$16 < H \le 20$	4	