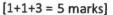
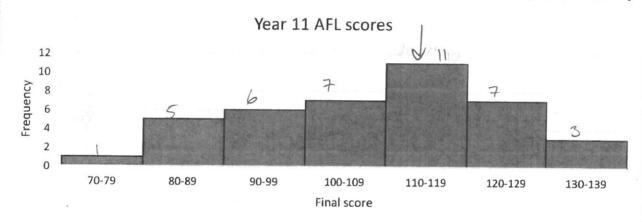
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Name:			Date:				
Class:							
1000	Year 11 Essential Mathematics Unit 2 Mini Test 1.1 2018 Topic – Data analysis and Displays		CORE:				
			/ 25				
Baldivis Secondary College	Full working out MUST be shown to get full marks for each question.						
Total Time:	30 minutes						
Weighting:	1%						
Equipment:	To be provided by the student: Penotes	n, pencil, ruler, scientific calculator, 1 single	sided page of A4				

1. The Year 11 AFL coach created a histogram of their students scores across a two 20 game seasons.

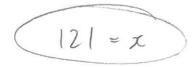




a. Which interval is the modal set?

b. Which interval would the median be in?

c. He records the next five game scores as 120, 124, 128, 131, 132.
After adding a 6th score, the mean of these 6 games is 126 points. What was the final score?



2. Jessica is saving for her first car. She has a list of the prices for 7 cars that she likes.

[5+2+2 = 9 marks]

Car	Price			
2011 VW Passat	\$9,000			
2013 Honda Jazz	\$10,790			
2011 Mitsubishi ASX	\$11,987			
2008 Subaru Impreza	\$7,200			
2011 Holden Captiva	\$11,990			
2014 Ford Focus	\$9,990			
2009 Toyota Corolla	\$9,989			

— а.	What is	the 5-nu	ımber sur	nmary fo	r Jes	sica's se	electio	n?	- 0	
	(7200,	9000,	mber sur	9990,	10	790,	119	87.	11991	0
			• /	, , , , ,		/		,		-

b. Calculate the interquartile range of price of the selection of cars

$$11987 - 9000 = 2987$$

c. What information does the interquartile range provide about the price of cars? 50% of all of her choices are between 9000 and 11987.

3. The following are the sales prices for a selection of properties in Baldivis

\$420 000, \$380 000, \$1290 000, \$327 000

$$327$$
, 345 , 380 , 420 , 1290 336 [5+2+2+2 = 11 marks]
a) Show how \$1 290 000 is the outlier in this set of data.

b) Calculate the mean of the prices with and without the outlier included.

c) Calculate the median of the prices with and without the outlier included.

d) Would you use the mean or median to describe the property prices in Baldivis? Explain your answer in one to two sentences.