## ANALYSIS OF THE DISPERSION AND BOX AND WHISKER DIAGRAMS FOR THE AVERAGE DISTANCE FROM THE GROYNE TOP TO THE SAND SURACE FOR 10 GROYNES AT HORNSEA

## Compete the analysis below :-

1.	The dispersion diagrams for the north and south facing sides of the 10 groynes at Hornsea on the Holderness coast of Yorkshire confirm the
	evidence presented by the means /averages.
Co	mplete the table below :-

	North facing	South facing	
Mean	cm	cm	
Median	cm	cm	
of the san north side The accur reasons. <sup>-</sup> and to allo	nd is more / less on the e proving that longshore mulation of sand on the To absorb wave energy ow the town to function	e from the top of the groynes to the surfact north facing sides. Sand build-up on the e drift is from north to south / south to not beach at Hornsea takes place for two and help prevent erosion of the coastline as a seaside resort.	rth e,
	<u> </u>	sides. Can you explain this?	
	•••••		
distances the groyn- quartile ra of the gro	from top of groynes to es are not distributed e ange of cm. When ynes are very similar at	oox and whisker diagrams show that the sand surface) for the north facing sides venly around the median value, with an intereas the mean and median on the south saround cm, on the north side there ean and median values of cm.	nte side
values wh sand than very large data. Can position?	nich may be anomalies.  I expected has built up  I inter quartile range of  I this be explained by ye	es the data is skewed by a tail of larger This is for groynes 1, 2 and 3, where less to the north of the groynes. This gives a cm, which shows a large spread of ou knowledge of those groynes or their	