

## Greenwood College Year 12 Applications Investigation 1 2019 Windows Problem Marking Key

Name	
<u>Problem</u>	
Mention finding the incorrect priced window and determining how the windows are	priced. /2
Listing three realistic assumptions (cost of glass per $\mathrm{ft^2}$ or framing per $\mathrm{ft}$ is the sam of manufacturing is not considered,)	. —
Choose	
Listed the maths you are going to use (measuring, table, graph, correlation co-efficient-of-best-fit,).	cients, /3
<u>Use</u>	
There were three methods students used to determine the window which was no	ot correctly
<ol> <li>priced (outlier).</li> <li>Removing one window and re-calculating the correlation co-efficient. Rer outlier window will result in an increase in the correlation co-efficient.</li> <li>Using lines-of-best-fit and residuals. The outlier window will have the largest Calculating and comparing price/area (or price/total framing).</li> </ol>	•
Providing a table of window measurements.	/4
Drawing scatter-plots.	/4
Providing correlation co-efficients.	/4
Providing lines-of-best-fit.	/4
Determining that window I was the outlier.	/2
Re-calculating the price of window I.	/2
Determining how the windows are actually priced. The price of a window is found the area of the glass and twice the total framing. No calculation evidence max 2.	by adding /4
<u>Interpret</u>	
Discussion of reasonable results/errors.	/2
Discussion of whether your approach was the best.	/2
Mention of other factors that could have influenced your results.	/2

## Communicate

Repeat aims, method and results. /2

Discuss improvements if you had to do this project again (e.g. combine all windows together rather than separate into one-window and two-window frames,...) /2

Mention of revising original assumptions. /2

Total