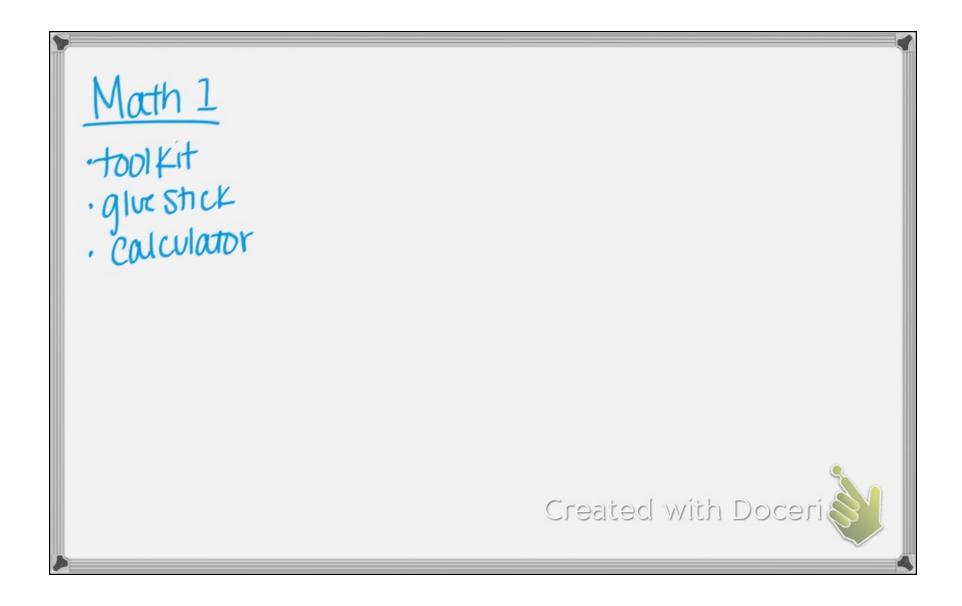
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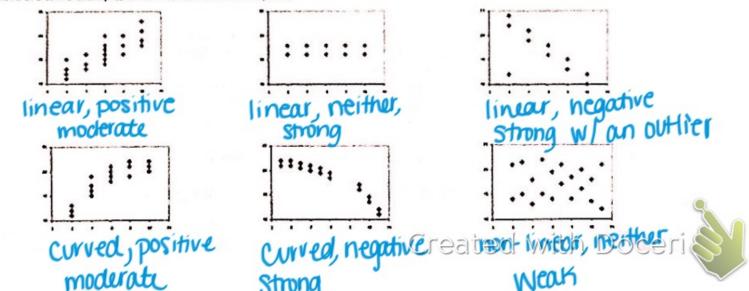


## Linear Degression: Correlation

You can describe the overall pattern of a scatterplot by the form, direction, and strength of the relationship between the two variables.

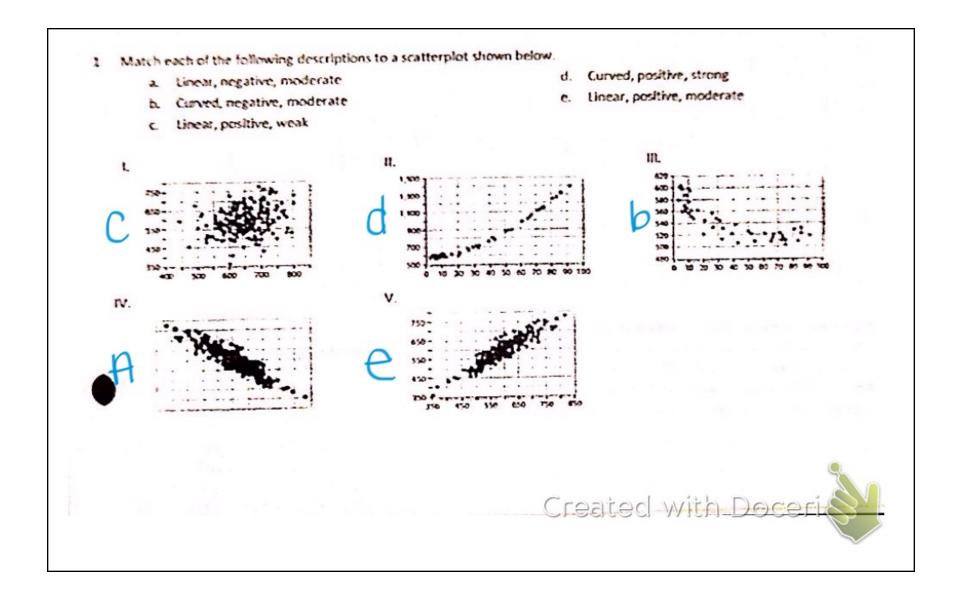
- The form of a scatterplot is generally described as either linear or curved.
- The direction (or association) of a scatterplot is described as positive if the scatterplot slopes upward as we move from left to right, as negative if the scatterplot slopes downward as we move from left to right, or as none if the direction is neither positive nor negative.
- The strength of the relationship between two variables shown in a scatterplot is determined by how closely
  the points follow a clear form. Use the words strong, moderate, or weak to describe the strength.

Here are some examples of how to describe scatterplots:



es descri		of a scatterplot is generally described as e	rength of the relationship between the two
			ed as positive if the scatterplot slopes upward as we
			nward as we move from left to right, or as
		wither positive nor negative.	
	The	of the relationship between two variable	s shown in a scatterplot is determined by how closely
		form. Use the words strong, moderate,	
Here are some	examples of how to descri-	be scatterplots:	
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	Correlation Mate	hing Activity		
 Graph I	Grapts II	Carapita BI	Graphry	(
		4.4		
Graph V	Graph VI	Graph VII	graph b	
			r = 0.94 Strong	
graph table	Table Graph	graph! =	graph 7 table	C
910ph table 3 = 0.07	Table Graph r = 0.50	table 1	r = -0.94	
weak	moderate	Per-fect	Strong	
graph table r = -0.77	$\frac{graph}{r} = -19$			•
moderate	perfect		and the distribution of the second se	
Table A	Table C  X	X     Y       2     47       2     47       2     47       3     3       4     3       3     7       9     42       2     43       4     45       4     45       4     5       5     37       5     7       6     1       5     7       6     1       5     7       6     1       5     7       6     1       5     7       6     1       6     1       7     1       8     1       8     1       9     1       9     1       1     1       1     1       1     1       2     1       2     2       3     1       4     1       5     1       6     1       7     1       8     1       9     1       1     1       1     1       2     2       3     3	18 7 44 1 272 21 401 1 362 43 271 7 418 37 219 7 488 42 154 6 544 46 100	th Doceri

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Bottom of

Correlation Coefficient/r-value: tells you how strong & what direction the duta is.

r-values closer to 1 9-1 are the strongest r-values closer to 0 is weak



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