Mathematics 9 The Slope of a Line

Grid Lines:	The vertical and <u>horizontal</u> lines which form the grid on graph paper.
Grid Point:	Any point ofintersection_ of two dimensionalplane_ on graph paper.
Slope:	A number which represents the <u>Steepness</u> or <u>tilt/incline</u> of a line.
AMOUNT OF SLOPE: Moderate Slope: makes an angle of with the horizontal. Gentle Slope: makes an angle between and with the horizontal. Steep Slope: makes an angle of with the horizontal. Zero slope: makes an angle of with the horizontal.	
DIRECTION OF SLOPE: Lines many be vertical, horizontal, uphill or downhill in direction.	
Uphill:	Ascending, <u>incleasing</u> or <u>fising</u> to the right.
Downhill:	de scending, <u>de cleasing</u> or <u>dropping</u> to the right.
 Steps For Finding A Numerical Value For Slope: 1. Find two grid points on the line and mark them with dots. 2. Start at the left grid point. 3. Use a ruler to draw a horizontal line to the right from this point until you are vertically above or below the second grid point. This horizontal line is the <i>run</i>. 4. Now draw a vertical line from the right end of the <i>run</i> either up or down to connect to the second grid point. This vertical line is the <i>rise</i>. 5. Count the graph squares to determine the length of the <i>run</i> and the <i>rise</i>. 6. The <i>run</i> is always positive. 7. The <i>rise</i> is positive if it is going upwards from the <i>run</i>, or is negative if the <i>rise</i> is going downwards from the <i>run</i>. 8. SLOPE = rise/run 9. Reduce the answer for slope to a fraction in lowest terms – avoid decimals or mixed numbers. 	
Downhill Slop Moderate Slop Gentle Slope: . Steep Slope: Zero slope: Graph # <u>[]</u>	

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