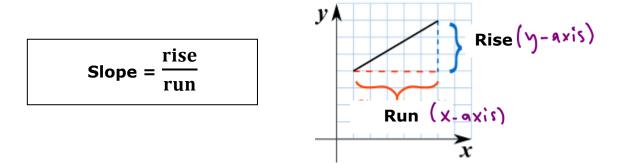
## Lesson: Slope

The **slope** (also called gradient) of a straight line shows how  $\underline{\text{Step}}$  a straight line is.

## To Calculate the Slope

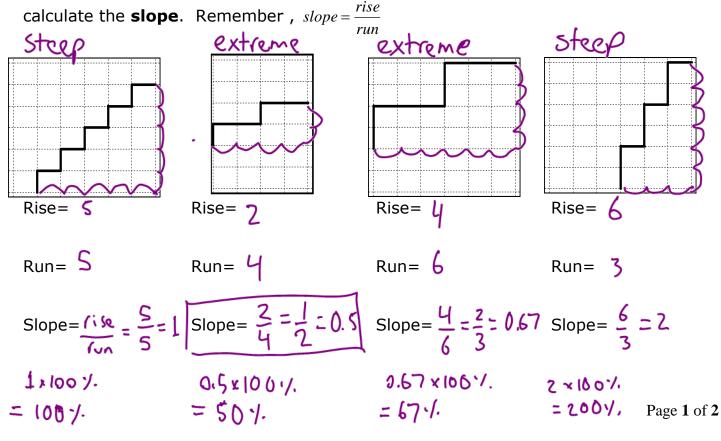
Divide the change in height (rise) by the change in horizontal distance (run)



## LEVELS (AMOUNT) OF SLOPE

	ZERO or LEVEL	GENTLE	MODERATE	STRONG	EXTREME	STEEP
SLOPE (%)	0%	2 - 9%	9 - 15%	15 - 45%	45 - 70%	70% -100%
DEGREE (°)	0°	1.1 - 5°	5 - 8.5°	8.5 - 24º	24 - 35 <sup>0</sup>	35 - 45°

**Example**: For each staircase, count squares to determine the rise and the run and rise



## Thinking:

Each of the following diagrams represents a wheelchair ramp. Wheelchair ramps cannot have a slope steeper than ¼ or 0.25. Calculate the slope of the following to determine which, if any of these ramps are safe.

