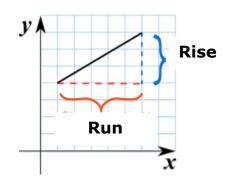
Lesson: Slope

The **slope** (also called gradient) of a straight line shows how _____ a straight line is.

To Calculate the Slope

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

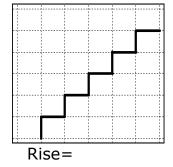
Slope =
$$\frac{\text{rise}}{\text{run}}$$

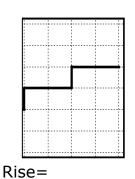


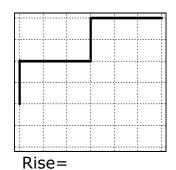
LEVELS (AMOUNT) OF SLOPE

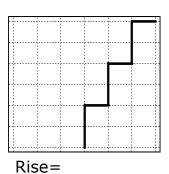
_	ZERO or LEVEL	GENTLE	MODERATE	STRONG	EXTREME	STEEP
SLOPE (%)	0%	2 - 9%	9 - 15%	15 - 45%	45 - 70%	70% -100%
DEGREE (°)	0°	1.1 - 5°	5 - 8.5°	8.5 - 24°	24 - 35°	35 - 45°

Example: For each staircase, count squares to determine the rise and the run and calculate the **slope**. Remember , $slope = \frac{rise}{run}$









Run=

Run=

Run=

Run=

Slope=

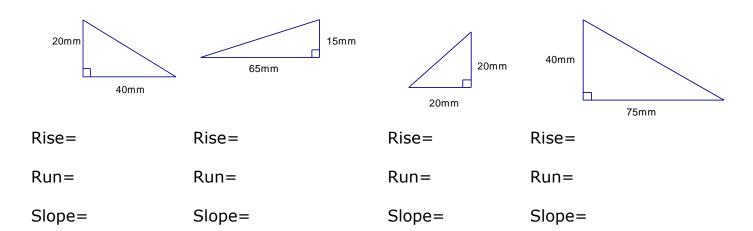
Slope=

Slope=

Slope=

Thinking:

Each of the following diagrams represents a wheelchair ramp. Wheelchair ramps cannot have a slope steeper than $\frac{1}{4}$ or 0.25. Calculate the slope of the following to determine which, if any of these ramps are safe.



TYPES OF SLOPES

