

Name: _____ Hour: _____ Date: _____

Can we predict a person's height from their shoe?



Could we use the length of a person's shoe to accurately predict their height? We will start by collecting some data.

$1 \text{ in.} = 2.54 \text{ cm}$

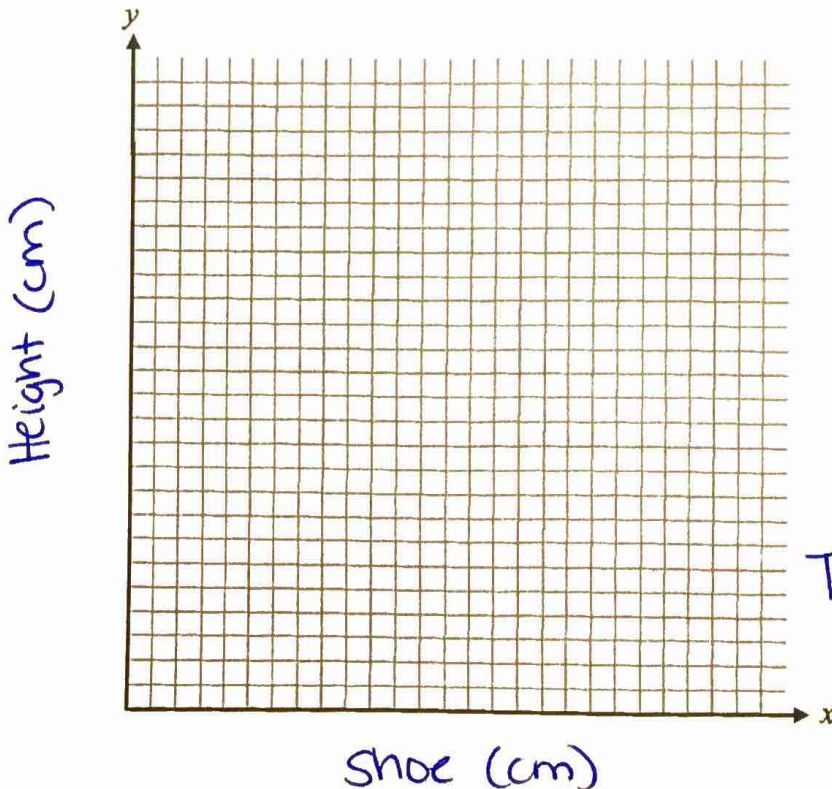
What is the length of your shoe (cm)? _____ What is your height (cm)? _____

Record these values somewhere in the classroom and then record class data here:

Shoe (cm)															
Height (cm)															

Shoe (cm)														
Height (cm)														

- Which variable is the explanatory? Shoe (cm) → Input
 Which variable is the response? Height (cm) → Output } predicts
- Make a scatterplot of the class data.



- Describe the relationship displayed in the scatterplot.
 D: Direction (+ or -)
 O: Outliers
 F: Form (Linear or non linear)
 S: Strength

The data shows a positive, fairly strong linear pattern. TheStatsMedic