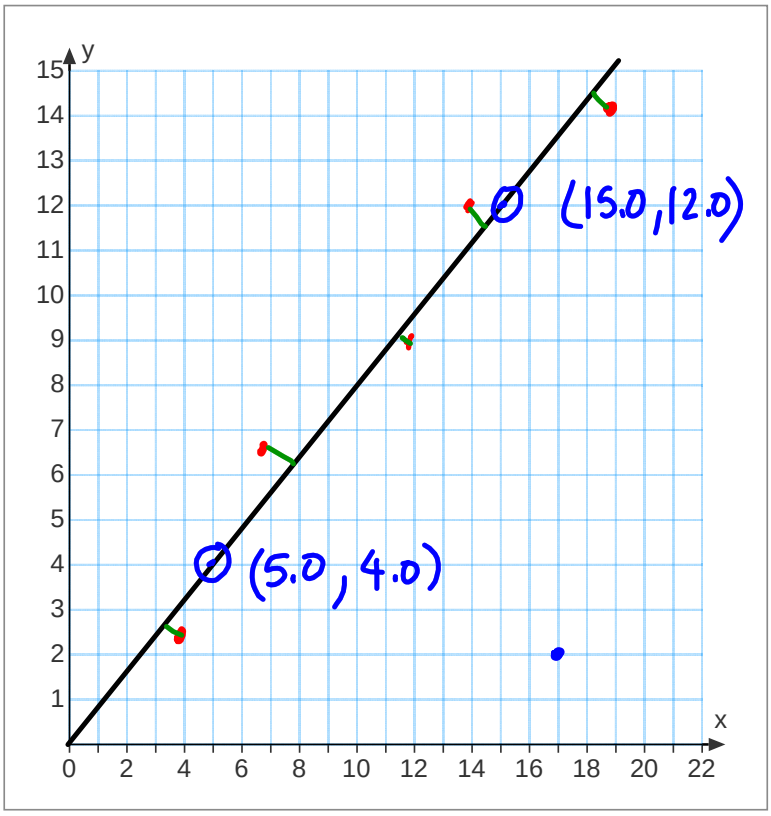

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$= \frac{12.0 - 4.0}{15.0 - 5.0} = \frac{8.0}{10.0}$$

$$= .80$$

Collect Data

1) mass & volume of pennies
2) wire: mass & length (height)

Calculations

1) Graph mass v. volume
   Calculate Density
2) Use slope (Density) to
   calculate vol. of wire.
   $D = \frac{m}{V}$
3) $V = \pi r^2 h$ solve for r
4) diam. = 2r