- Warm up :

$$\frac{45 + 75 + 50}{3} = 56.7$$

$$75 - 45 = \frac{30}{2} = 15$$

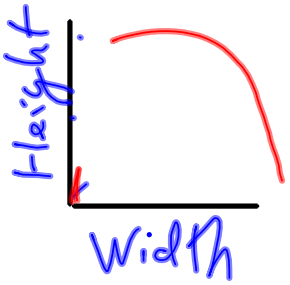
$$56.7 \pm 20$$

$$\approx 60 \pm 20$$

Paragraph lab

Width = 33.5cm, Height =

Question: How does the width of a paragraph affect the height of a paragraph



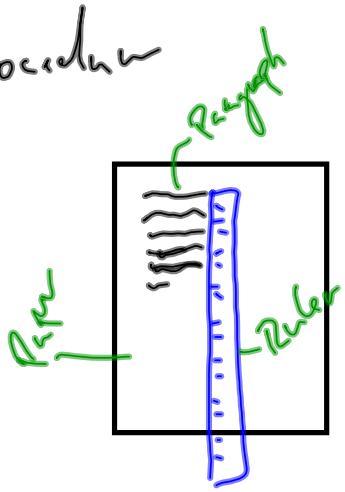
As width increases, height will

IV Width

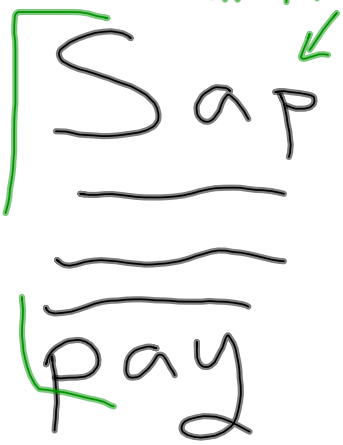
DV Height

Controll:
- Length of words
- # of words
- Paragraph Size
- Font

Procedure



Measure like this



measure to the top of the capitals and the bottom of the tails

Relationship: Inverse

$H = \frac{74.2\ cm^2}{W}$

2 different A values: ~ 75 cm^2 ~36 cm^2 Font

$Width\ (cm) \cdot Height\ (cm) = \frac{A}{Width\ (cm)} \cdot Width\ (cm)$

$Width\ (cm) \cdot Height\ (cm) = A$

$cm \cdot cm = cm^2$

$h \cdot W = Area$

$h = \frac{Area}{W}$

The slope of

My inverse line

is the area of my

paragraph

Prediction:

width = 33.5cm

$$H = \frac{73.09}{W}$$

$$H = \frac{73.09\ cm^2}{33.5\ cm}$$

$$H = 2.181\ cm$$

$$H = \frac{35.67}{W}$$

$$H = \frac{35.67\ cm^2}{33.5\ cm}$$

$$H = 1.064\ cm$$

$$\frac{cm^2}{cm} = \frac{cm \cdot \cancel{cm}}{\cancel{cm}} = cm$$

Conclusion:

conclusive statement: Inverse

Supporting Data: Maximum and minimum data

State your equation

What are x and y / what are H and W

Analyze the data: What does the slope represent

the slope, 36.1 cm represents the area of the paragraph

Scientific Explanation: Prediction

Confidence: 1. how well your line fit your data

2. how close 33.5 cm is from your data set

3. was the area of your paragraph similar to your slope?

the area of my paragraph is 37.41 cm^2 and that is close to my A value

Conclusion

Conclusive Statement: state the relationship - Inverse

supporting data: Maximum and minimum values

State your equation:

What is x and y? / what are H and W?

Analyze Data: What does your slope represent?

Scientific Explanation: Prediction

Confidence

1. how well does your line fit your data.

2. how far your prediction is from your data

3. does your A value match the area of your paragraph?

Conclusion:

Conclusive statement: Inverse

Supporting Data: Maximum and minimum values

state your equation

what are x and y? / what are h and w?

Analyze Data: What does the slope represent?

Scientific Explanation: Prediction

- Warm up :

$$\frac{45, + 75, + 50}{3} = 56.66\overline{6}$$

$75 - 45 = 30 \div 15 \rightarrow 20$

$\frac{30}{2} = \pm 20$

56.6 ± 20

60 ± 20