Significant Digits – used with measurements

2.378 m * 5.42 m = 12.88876 m^2

1) All nonzero digits are significant.

2) Zeros between 2 sig. digits are significant

3) Zeros at the end of a decimal fraction are significant.

4) Mult./Div = Round to the Smallest # of sig. digits in the original measurements

$7.2\ ft \times 3.65\ ft =$

$= 26.28\ ft^2$

$= 26\ ft^2$

360,000 m 2

0.000793 cm 3

50,040 in. 4

0.00730 cm 3

860.03 ft 5

7000.0 m 5

Round to 3 sig dig: 72645 m → 72,600 m

$A = \frac{1}{2} b h$

$A = 0.5 (12{,}000\ ft)(26{,}440\ ft.)$

$= 158{,}640{,}000\ ft^2$

$= 160{,}000{,}000\ ft^2$

5/ Add & Subtr. = Use the smallest # of decimal places in the original measurements.

$$\begin{array}{r} 7.2 \text{ ft} \\ +\ 3.65 \text{ ft} \\ \hline 10.85 \end{array}$$

10.9 ft.

Unit Conversion

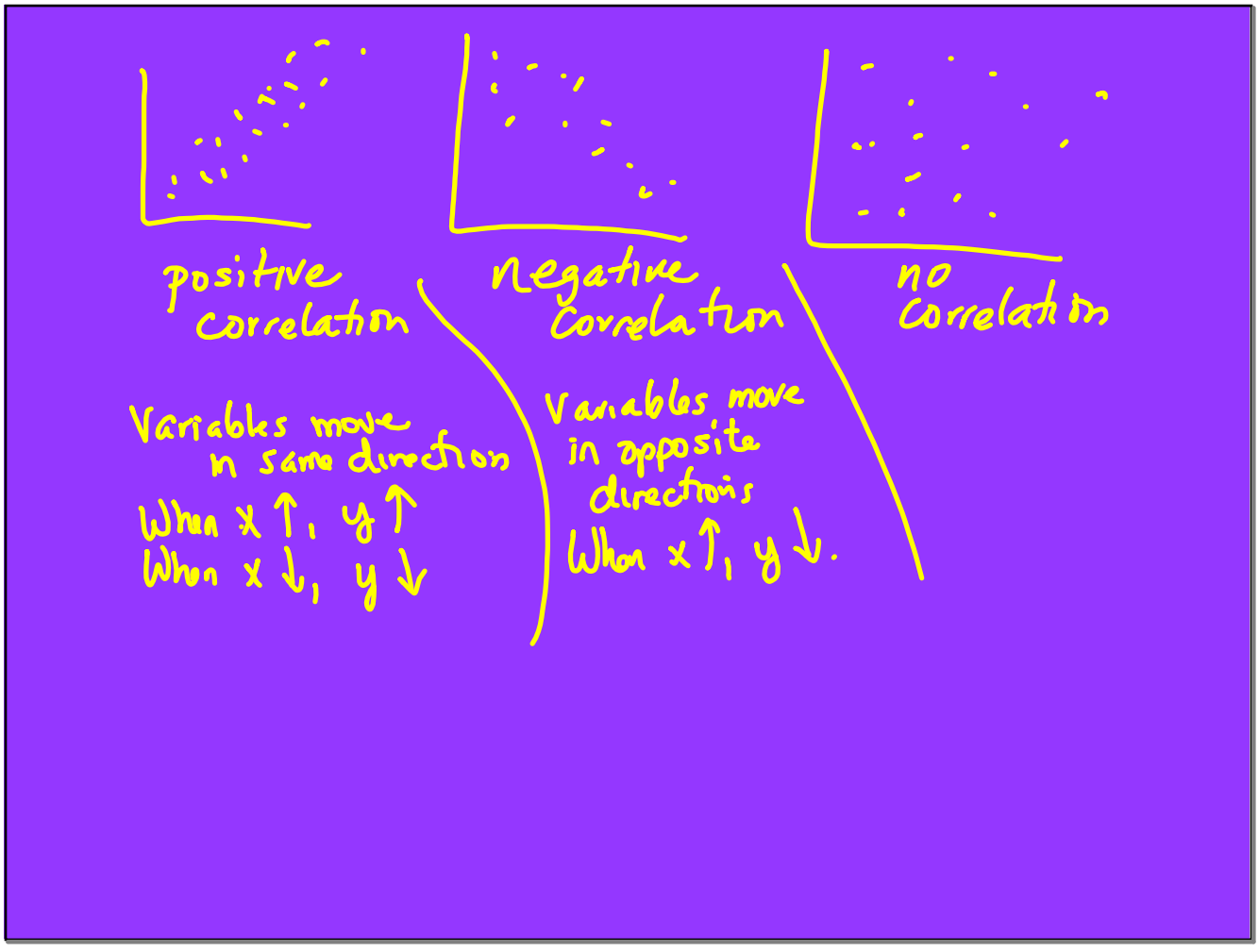
Change to $\frac{mi}{h}$

$$240\ \frac{\cancel{ft}}{\cancel{sec}} \cdot \frac{3600\ \cancel{sec}}{1\ h} \cdot \frac{1\ mi}{5280\ \cancel{ft}}$$

$$= \frac{240 \cdot 3600}{5280}\ \frac{mi}{h}$$

$$= 86400\ \frac{mi}{h} = 163.6\overline{36}$$

$$\approx 160\ \frac{mi}{h}$$


positive correlation
Variables move in same direction
When x ↑, y ↑
When x ↓, y ↓
negative correlation
Variables move in opposite directions
When x ↑, y ↓.
no correlation

August 26, 2022

Scatter plots on calculator.

Enter data.

1) Create new document – #4 Lists & Spreadsheets.
2) Name columns
3) Enter data

Create Scatter plot

1) Add new page Ctrl-Doc.
2) Make #5 Data & Statistics page
3) Move cursor to bottom of page & Click to select x-axis variable
4) Do same for y-axis

Scale Graph

1) Menu – #5 Window/Zoom – #1 Window Settings
2) Make changes to max & min values for each axis.