Significant Digits - usia

1) All nonzero digits are significant.
2) Zeros between 2 sig. digits are significant 50,040 in. 4
3) Zeros at the end of a decimal fraction are significant.
4) Mull. / $\mathrm{Div}^{\mathrm{V}}=$ Round to the Smallest \# of sig. digits in the original measurements

$$
\begin{aligned}
& 2.378 \mathrm{~m} * 5.42 \mathrm{~m}=12.88876 \mathrm{~m}^{2} \\
& 360,000 \mathrm{~m} 2 \\
& 0.000 \geq 93 \mathrm{ft} .3
\end{aligned}
$$

$$
50,040 \text { in. } 4
$$

0.00130 ch 3 860.03 ft 5 1000. om 5

$$
\begin{aligned}
7.2 \mathrm{ft} * 3.65 \mathrm{ft} & =26.28 \mathrm{ft}^{2} \\
& \approx 26 \mathrm{ft}^{2}
\end{aligned}
$$

5 Add 1 Suite $=$ Use the smallest it if dermal places in the onginal measurements.

$$
\begin{aligned}
& \begin{array}{r}
7 . \frac{2}{\mathrm{ft}} \\
+3.65 \mathrm{ft} \\
\hline 10.85 \mathrm{ft}
\end{array} \\
& \text { Do not use sig. } \\
& A=\frac{4 \cdot A}{l} \quad \text { digits } \\
& \approx 10.9 \mathrm{ft} \text {. } \\
& \frac{4 \cdot 3.68 \mathrm{~m}^{2}}{9.26 \mathrm{~m}} \\
& \text { only look } \\
& \text { at ilo digit, } \\
& \text { moasuremetr } \\
& 2 \text { gore constant } \\
& \text { \#'s }
\end{aligned}
$$

Unit Conversion - Concerto $\frac{\mathrm{mi}}{\mathrm{hr}} \quad \mathrm{Imi}_{\mathrm{mi}}=5280 \mathrm{fl}$. 240 k

60 sec .60 min

$$
\begin{aligned}
& =\frac{240.3600}{5280} \frac{\mathrm{mi}}{\mathrm{hr}} \\
& =\frac{1800}{11} \frac{\mathrm{mi}}{\mathrm{~h}}
\end{aligned}
$$

Scatterplot

positive correlation

ne gative coredation


