a) How many sig figs:

$$
18.0125
$$

b) Round to 1 sig fig:

c) Find the uncertainty of the following data set:
18.012, 18.016, 18.025

Range $\frac{18.025-18.012}{2}=\frac{0.013}{2}=0.0065$


Calculate the average and uncertainty of the following data set:

$$
\frac{0.0024+0.0031,+0.0030+0.0025}{=0.00275}
$$

$$
\begin{gathered}
\frac{\text { Range }}{2}: 0.0031-0.0024=\frac{0.0007}{2}=0.00035 \\
0.00035 \rightarrow \frac{0.0004}{} \\
0.0027 \pm 0.0004 \\
0.0028 \pm 0.0004
\end{gathered}
$$

- Correct the following averages and uncertainties:

- Find the average and uncertainty of the following data set:

!
$=109461 \rightarrow$ A venge
$\frac{109729-109103}{2}=3 \rightarrow 300$ $109400 \pm 300$ $109500 \pm 300$

Conclusion:
Conclusive statement:
Horizontal relationship
Quadratic


Supporting data
Maximum value and minimum value
My maxiumum Angle/ mass/length was $\qquad$ with a period of $\qquad$ . My minimum angle/mass/length was
$\qquad$ with a period of $\qquad$ .
State the equation: $\quad y=1.6$
$y$ is the period $L=25 p^{2}$
My equation is $p=1.1 \mathrm{~s}$, where $p$ is the period of the pendulum.
My equation is $y=30 x^{2}$ where $y$ is the length and x is the period.

Scientific Explanation :
Prediction
COnfidence

## Conclusion

Conclusive statement
Horizontal relationship


Quadratic Relationship
Supporting Data:
Maximum and minimum data
My maxiumum mass/angle/length was $\qquad$ with a period of $\qquad$ . my minimum mass/angle/length was $\qquad$ with a period of $\qquad$ .
state the equation: $\quad y=33 x^{2} \quad p=1.6$ where y is the period and x is the length. where p is the period.

Scientific Explanation
Prediction
Confidence:

## Conclusive Statement:

## Supporting Data:

## Maximum and minimum

My maximum angle/mass/length was with a period of $\qquad$ and my minimum angle/mass/length was
$\qquad$ with a period of $\qquad$ .

> State the equation:
> $p=1.1 \mathrm{~s}$
> $y=28 x^{2}$ Scientific Explanation:

## Prediction:

- Correct the following averages and uncertainties:

$$
\begin{array}{ll}
> & 1.023+/-0.0034 \\
> & 493.1+/-2
\end{array}
$$

- Find the average and uncertainty of the following data set:
- 109450, 109562, 109729, 109103

Calculate the average and uncertainty of the following data set:

$$
\begin{gathered}
\frac{0.0024,+0.0031,+0.0030,+0.0025}{4} \\
=0.00275 \rightarrow \text { Avery } \\
0.0031-0.0024=0.0007 \\
\frac{0.0007}{2}=0.00034 \rightarrow 0.0003 \\
0.00278 \pm 0.0004 \\
0.0004
\end{gathered}
$$


a) How many sig figs:

$$
\underline{18.012}
$$

b) Round to 1 sig fig:

$$
20
$$

c) Find the uncertainty of the following data set:

$$
\begin{aligned}
\frac{18.012,+18.016,+18.025}{3} & =18.017 \\
18.025-18.012= & \frac{0.013}{2}=0.0064 \\
& 0.01 \\
& 0.006 \\
& 0.007 \leftarrow
\end{aligned}
$$

