## Problem Solving and GERC

## You will be able to

 solve story problems!!!
## Grade Homework

- Measuring with Metrics
- Clear your desks
- Grade with red pen


## Solving Problems Using the GERC Format

- This will be the format that we will use in our Physical Science Class
- In order to get any credit on any problem solving question, you must use this format
- Your work will not be graded without this format
- If you forget the correct units, you will receive half credit for your work


## GERC

- Given-list what you are given in the problem WITH variables, don'† forget UNITS! (also list what you are trying to find)
- A spring pulls down with 30 N on a 6 kg cart. Find the acceleration.
- What variables have we been given?
- $\mathrm{F}=$
- $m=$
- $a=$



## GERC

- Equation- show the equation you will use BEFORE you plug any numbers in
- A spring pulls down with 30 N on a 6 kg cart. Find the acceleration.
- $F=m^{\star} a$



## GERC

- Rearrange- solve the equation for the variable you are missing or need to calculate
- A spring pulls down with 30 N on a 6 kg cart. Find the acceleration.
- $a=F / m$

Do not waste my tim if the formula is already in the correc arrangement, dog!


## GERC

- Calculate- putting given values into the equation from above, don't forget UNITS! Show your final calculation with UNITS. Put a box or circle around your final answer and UNITS!
- A spring pulls down with 30N on a 6kg cart. Find the acceleration.
- $a=30$ newtons $=5 \mathrm{~m} / \mathrm{s}$



## Practice

- Nascar driver, Jeff Gordon, has a car that is one of the fastest on the circuit. If it travels 600 miles in 4 hours, what is his cruising speed?
G-

E-
R-
C-
Equation for Speed
$s=\frac{d}{t}$

## Practice

- Liz sets the cruise control at 65 miles per hour. She has to drive to Tucson which is 275 miles away - How long will it take her to get there?
G-
E-
R-
C-
Equation for Speed
$s=\frac{d}{t}$


## Homework

- Create a poster that could be posted on our class walls demonstrating how to properly solve Science Problems
- Complete the worksheet on the back of your notes
- Graded next class

