## Administration

Review: Units and Significant Figures Intro:

My name is Mr. Connor.
I am a teacher in training with UBCO.
My email is david.connor@sd23.bc.ca
I will be in this room before class. During lunch. After school. Most days.

##  Invinanandib Snuscmanilsonilu. BUTDSTMOMUSETVU。

I am here to help. Use me. I want you to do well, and I want you to learn. I will post class notes and solutions on my website: Math1337.weebly.com

Textbook: Monday @ 9:50
Bring your student card!

| Test after every unit | $75 \%$ |
| :--- | :--- |
| Labs ( $\approx 1 /$ unit $)$ | $25 \%$ |

## Safety:

Where to go?
What to do?

Who are you?
Attendance.

## Card:



## Let's get down to work!

Physics gives us a general understanding of the universe.
We just have to agree on how to communicate about it to each other.
1999: A disaster investigation board reports that NASA's Mars Climate Orbiter burned up in the Martian atmosphere because engineers failed to convert units from English to metric. $\$ 125,000,000$ mistake.
What are SI Système Internationale) units?
Thekeare seven.


However, we do not always get those units. If you're given/atime of one hour. How many seconds do you have?


A lot of building material is stet in the ridfectous imperial system. Only countries still cling to this (Liberia, Myanmar, and the United States).


You drive at $120 \mathrm{~km} / \mathrm{hr}$. What is that in SI units ( $\mathrm{m} / \mathrm{s}$ )?


My room in 1,000 square feet. In meters please.




Significant Digits:
There are 33 million p
many? not $\pm$ any people?
What is different about saying the desk is 1 meter wide, and the desk is 1.03 m wide? $\qquad$
Significant digits are how we show how sure we are about a number. Are any of the number in the above table too precise?
ALWAYS use two or three significant digits in your answers. Saying $5 \mathrm{~m} / \mathrm{s}$ not good enough. You MUST write $5.0 \mathrm{~m} / \mathrm{s}$ or $5.00 \mathrm{~m} / \mathrm{s}$ for full mark

How many significant figures in these numbers?


