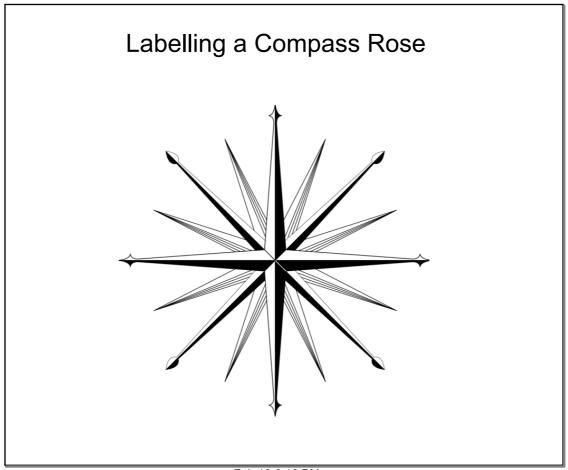


Feb 12-8:04 PM

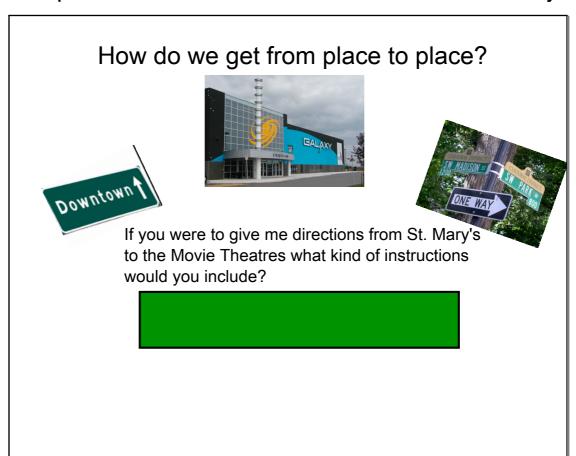


Feb 12-8:18 PM

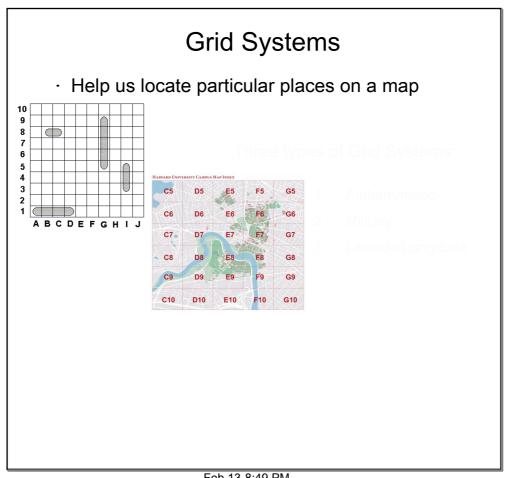
# **Parts of a Compass**

Compass Points	Compass Bearings
used to describe a specific direction on a	Definition: measured in degrees to provide a more accurate directional reading
Examples:	Examples:

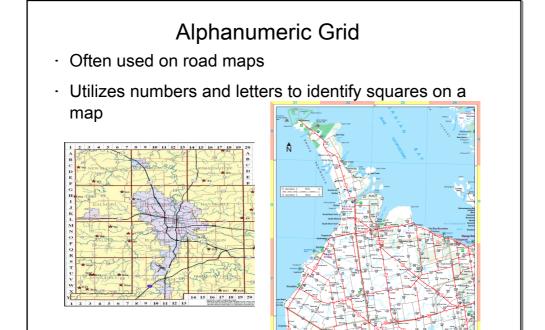
Feb 12-8:07 PM



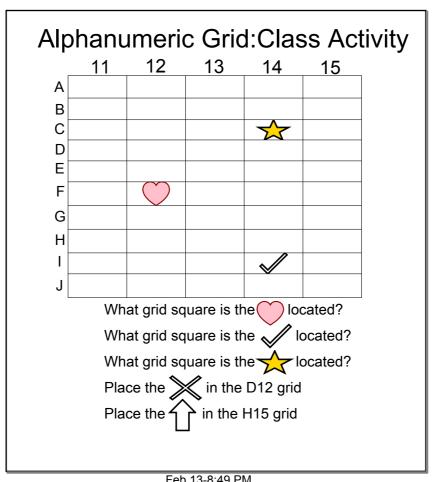
Feb 12-8:12 PM



Feb 13-8:49 PM



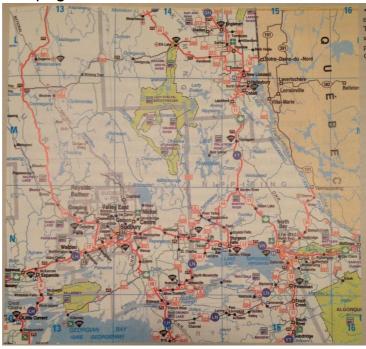
Feb 13-8:49 PM



Feb 13-8:49 PM

# **Textbook Activity**

 Complete questions 1-7, 9 and 10 on page 32 using the map on page 33



Feb 13-9:07 PM

# Review

# Military Grids

Where did this grid come from?

- During WWI the latitude and longitude system was too complicated and slow to use
- It became easier for soldiers to use a grid system on a map rather then using the latitude and longitude system

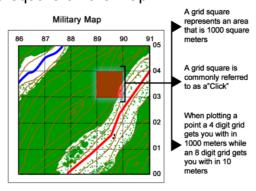
Feb 14-8:29 PM

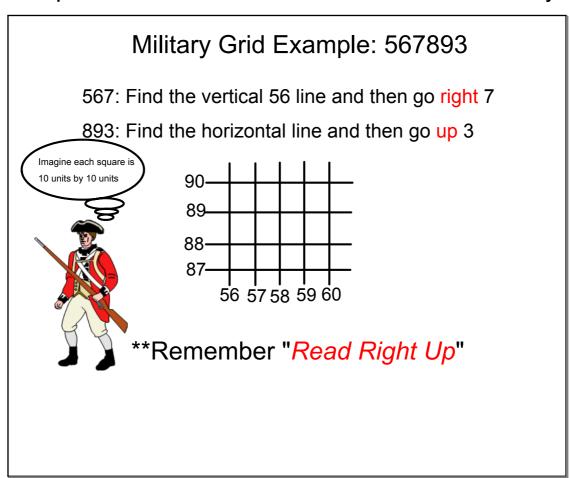
## Military Grids

- · Grid of blue lines used to identify squares in a grid pattern
- · Generally used on topographic maps

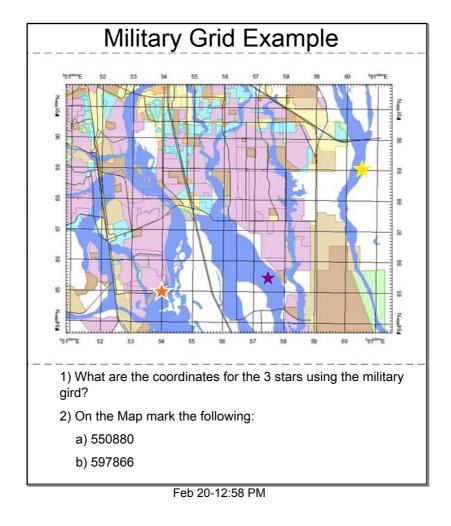
#### How Do I Read A Military Grid??

- Easting: vertical line running from top to bottom of the map
- Northing: horizontal line across the map
- By combining the digits from the easting and the northing we are able to identify a square on the map
- 1st: read to the RIGHT
- · 2nd: read UP



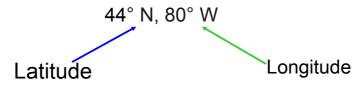


Feb 14-9:35 PM



#### Latitude and Longitude

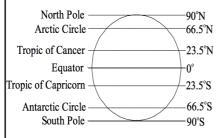
- Most well-known grid system used today
- · Grid lines extending north-south and east-west
- · Latitude is measured and of the
- · Longitude is measured and of the
- Cooridates are always written with the latitude first, followed by the longitude
- Example: Owen Sound, ON is located at:



Feb 14-9:59 PM

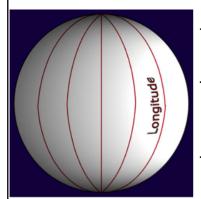
#### Parallels of Latitude

- Latitude
- Imaginary lines running east-west around the globe
- These lines are parallel to each other
- Located approximately 111km apart on the earths surface
- Latitude lines are measured North and South of the Equator
- Example:



- Miami, Florida is 25 degrees north of the equator, therefore it is written 25 N
  - Brisbane, Australia is 25 degrees south of the equator, therefore it is written 25°S

### Meridians of Longitude

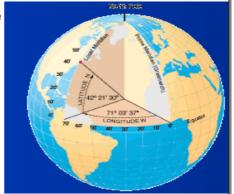


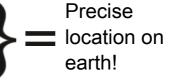
- · Imaginary lines
- Run north-south and meet at the poles
- Measured east of the Prime Meridian for 180 degrees and west for 180 degrees
- The Prime Meridian (passes through the community of Greenwich, England) divides the earth in half and is located at 09.
- · Example:
  - Miami Florida is near the 80° west of the Prime Meridian, therefore it is written 80°W

Feb 15-8:33 AM

#### Latitude and Longitude

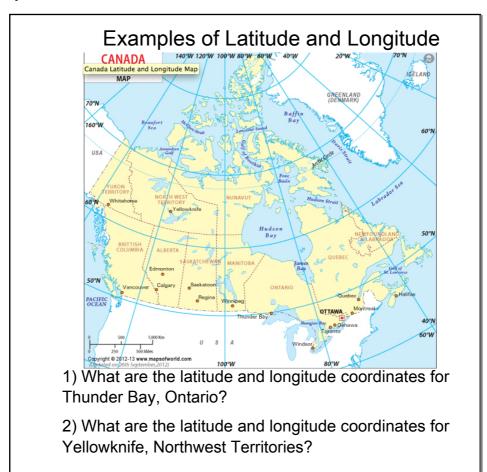
- Picture Latitude and Longitude as an angle measured from the centre of the earth
- Why Degrees, Minutes, Seconds??
  - > In order to accurately point a spot on the earth
  - Each degree of latitude or longitude is divided into 60 parts called minutes
  - > Each minute is then divided into 60 seconds
  - > 1 degree of latitude=111km
  - > 1 minute=1.6 km
  - > 1 second = 30 metres



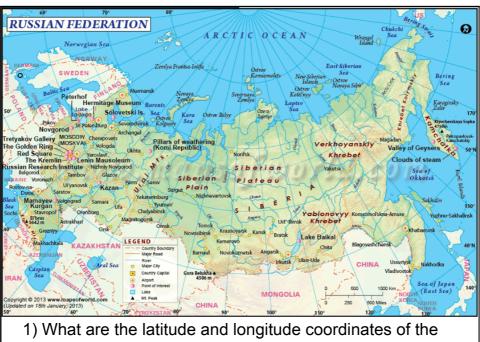


Example: for a more precise location of Owen Sound the latitude and longitude would read:

44.5667° N, 80.9333° W



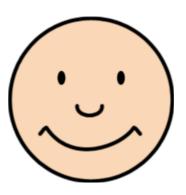
Feb 19-7:16 PM



- Aral Sea?
- 2) Plot a new city at the following coordinates:
  - A) 50°N and 90°E
  - B) 65°N and 118°E

## Latitude and Longitude Assignment

# Please hand in when completed!



Feb 19-9:20 AM

#### Journal #2

- A) Based on what you have learnt about Map Grids (Alphanumeric, Military and Latitude/Longitude), which concept do you think is the most accurate? Explain your choice
- B) Based on your response in Part A, explain how you would teach a friend how to use this specific map grid when looking at a map