TOPOGRAPHIC MAPS – NOTES PART 2

Social Studies 9

TOPOGRAPHIC MAPS – SCALE

* Map scales represent the ratio of a **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** to the actual **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
* Standard Canadian topographic maps are produced at 1:50 000, where **\_\_\_\_\_\_\_\_\_\_** on the map represented **\_\_\_\_\_\_\_\_\_\_\_** on the ground
* **FORMULA:**
* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** (e.g. 1:50 000) cover smaller areas in greater detail, whereas **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** (e.g. 1:250 000) cover large areas in less detail

TOPOGRAPHIC MAPS - MEASURING DISTANCE

* The **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** found at the bottom of topographic maps is used to determine distances between points or along lines on the map sheet
* Use the **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** on the left of the scale bar for measuring fractions of a kilometre
* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** on the map represents **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** on the ground
* Each degree of latitude is approximately **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** apart
* Each minute of latitude is, therefore, approximately **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

TOPOGRAPHIC MAPS - GRIDS

* A grid is a regular pattern of **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** intersecting at **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** and forming **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
* Grids are used to identify **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
* Topographic maps have two kinds of referencing systems
  1. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** (UTM) projection (easting/ northing)
  2. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** degrees and minutes (longitude and latitude)
* [Latitude and longitude video](https://www.youtube.com/watch?v=swKBi6hHHMA) (see next section)
* The symbols for representing latitude and longitude are as follows:
  1. Degrees: **\_\_\_\_\_\_\_**
  2. Minutes: **\_\_\_\_\_\_\_**
  3. Seconds: **\_\_\_\_\_\_\_**

LATITUDE AND LONGITUDE VIDEO

* The Earth’ circumference is approximately \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ miles
* Parallels of \_\_\_\_\_\_\_\_\_\_\_\_\_\_ and meridians of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ form an invisible grid over the Earth
* Lines (i.e. parallels) of latitude circle the Earth from \_\_\_\_\_\_\_\_\_\_\_\_\_\_ to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and are the same \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* Each \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of latitude is separated in to 60 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* Each minute of latitude is divided into 60 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* The equator lies at \_\_\_\_\_\_\_\_\_\_ latitude.
* The Tropic of Cancer lies at \_\_\_\_\_\_\_\_\_\_\_ latitude.
* The Tropic of Capricorn lies at \_\_\_\_\_\_\_\_\_\_\_\_\_\_ latitude.
* The area between the Tropic of Cancer and the Tropic of Capricorn is known as the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* The Arctic Circle lies at \_\_\_\_\_\_\_\_\_\_\_\_ latitude.
* The Antarctic Circle lies at \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ latitude.
* The lines that run North and South are called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* Longitude is measured using \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, as with latitude.
* Unlike latitude, lines of longitude are not \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* Zero degrees of longitude is called the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* The precise location of the San Diego is \_\_\_\_\_\_\_°\_\_\_\_\_\_\_\_’\_\_\_\_\_\_\_\_\_”N and \_\_\_\_\_\_\_°\_\_\_\_\_\_\_\_’\_\_\_\_\_\_\_\_\_”W

Topographic maps – UTM coordinates

* UTM coordinates are expressed in **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**and can be determined on the map by using the UTM grid lines
* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** values can be read along the east or west edges of the map
* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** values can be read along the north or south edges of the map
* Tip: find your easting**\_\_\_\_\_\_\_\_\_\_\_\_\_\_** and your northing **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**