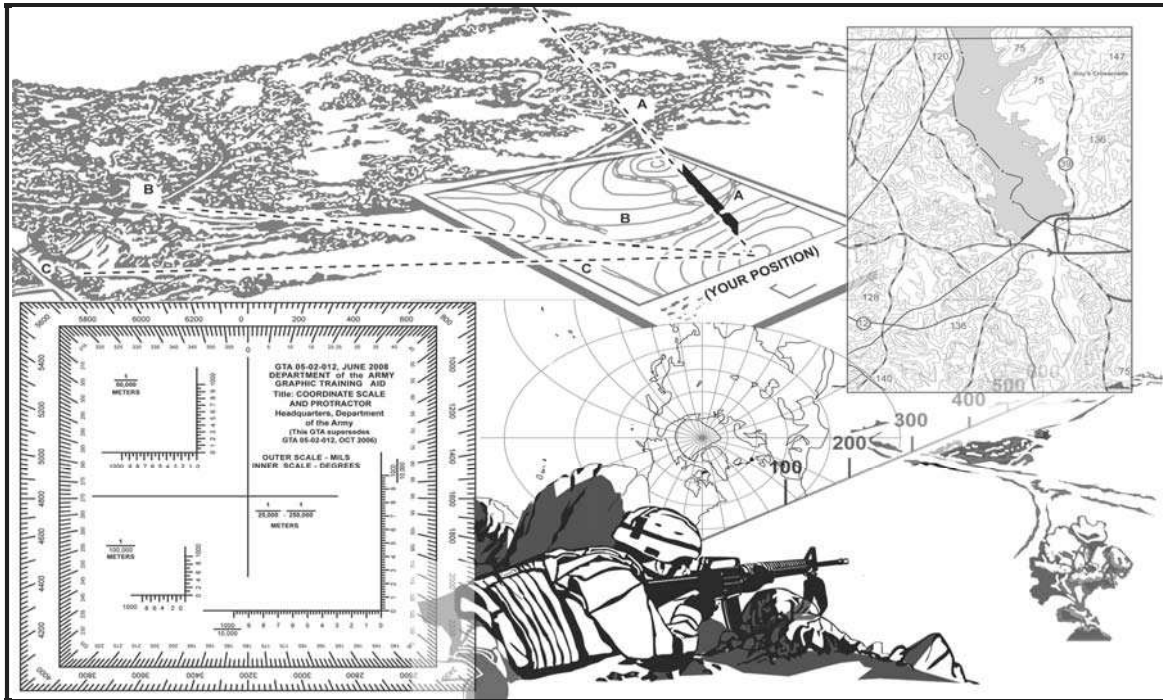

Map Reading and Land Navigation



November 2013

Headquarters, Department of the Army

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- **Grid north** is established by using the vertical grid lines on the map. Grid north may be symbolized by the letters GN or the letter “y.”

CAUTION

Check the map for the date; see Chapter 3 for location of map information. Declination diagrams older than 20 years may provide magnetic readings which are unreliable when converting True or Grid North with the Magnetic North, or the opposite.

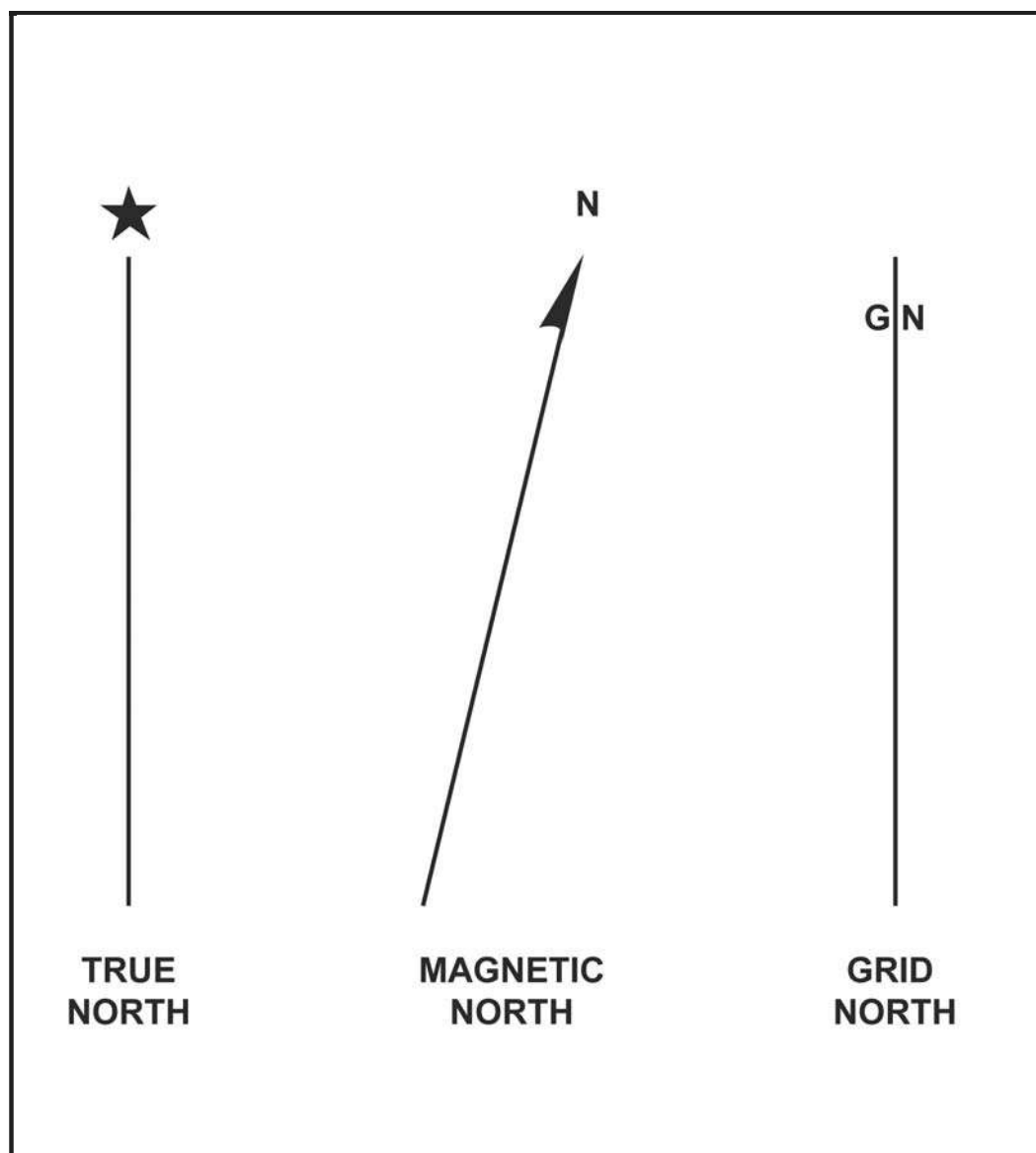


Figure 6-1. Three norths

AZIMUTHS

6-3. An azimuth is defined as a horizontal angle measured clockwise from a north base line. This north base line could be true north, magnetic north, or grid north. The azimuth is the most common military method to express direction. When using an azimuth, the point where the azimuth originates is the center of