


# Map and Compass [Orienteering]



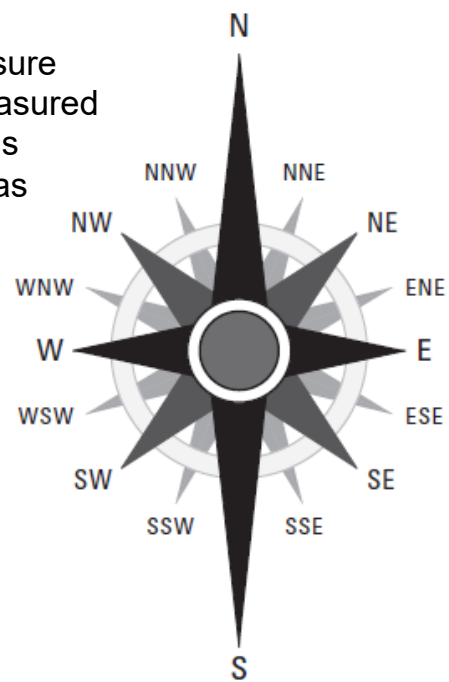
## Intro. to the Compass...



 Compass Basics - Map and Compass Skills - Video 3

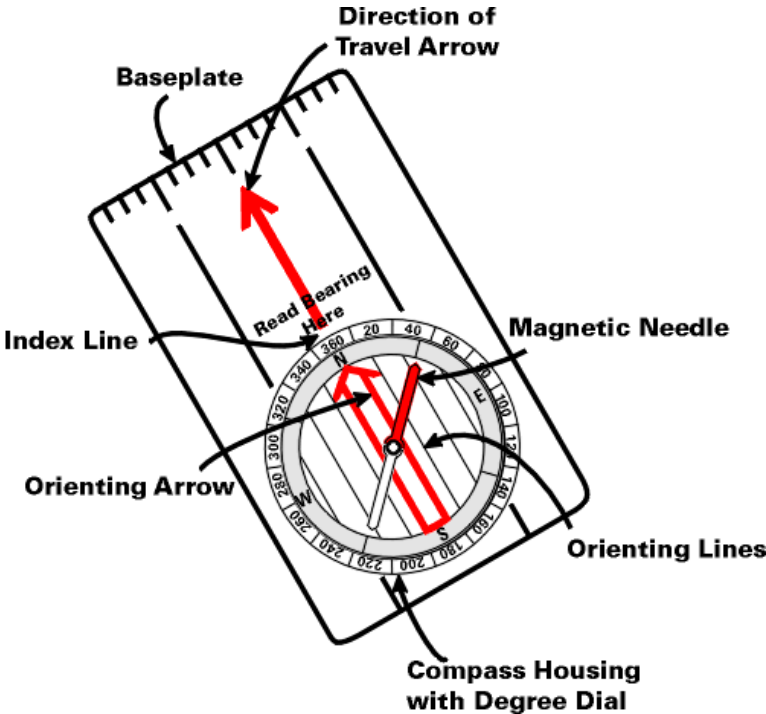
# Working with True Bearing

In navigation and map-making, people often measure angles from the vertical, or north. The angle, measured in a clockwise direction from a line pointing north is referred to as the **true bearing**. Straight north has a bearing of 0°

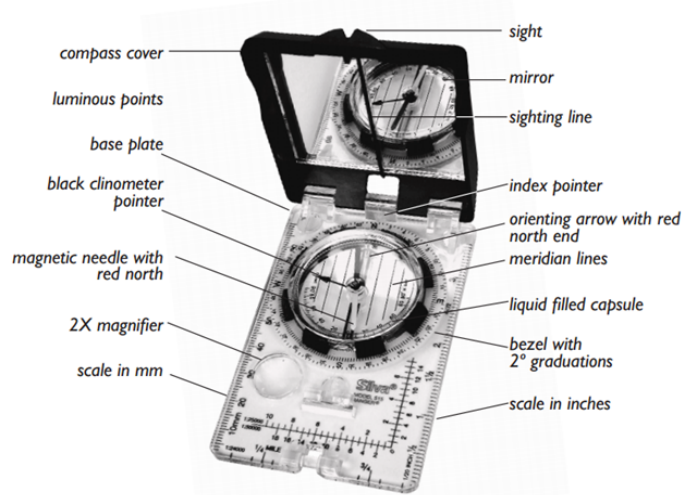


| NAVIGATIONAL BEARING |         |
|----------------------|---------|
| Direction            | Bearing |
| N                    | 0°      |
| NNE                  | 22.5°   |
| NE                   | 45°     |
| ENE                  | 67.5°   |
| E                    | 90°     |
| ESE                  | 112.5°  |
| SE                   | 135°    |
| SSE                  | 157.50° |
| S                    | 180°    |
| SSW                  | 202.5°  |
| SW                   | 225°    |
| WSW                  | 247.5°  |
| W                    | 270°    |
| WNW                  | 292.5°  |
| NW                   | 315°    |
| NNW                  | 337.5°  |

# Basic Compass...



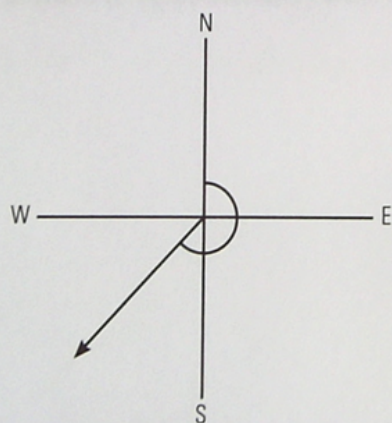
# MORE PARTS TO A COMPASS...



## EXAMPLE...

A boat is heading directly southwest. What is its true bearing?

### SOLUTION



If the boat is heading southwest, measuring from the vertical will give you an obtuse angle of  $225^\circ$  ( $45^\circ$  beyond a straight angle).

## **EXERCISE:**

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1) If a boat is travelling  $25^\circ$  south of straight east, what is its true bearing?

**(Solution -  $115^\circ$ )**

???

2) What is the true bearing of a boat travelling south?

**(Solution -  $180^\circ$ )**

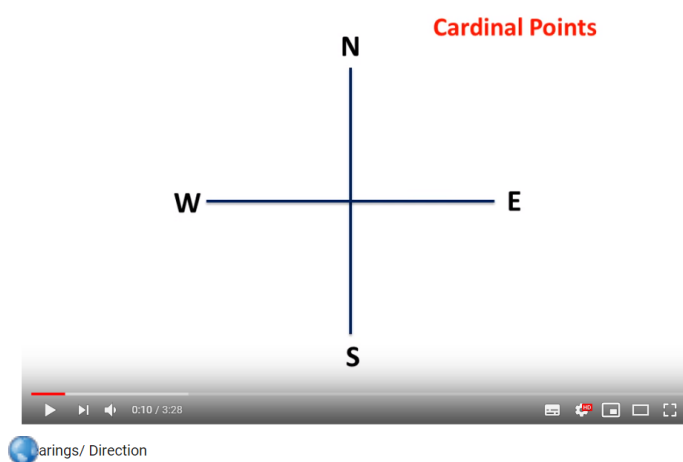
???

3) What is the true bearing of a boat travelling north-northwest?

**(Solution -  $337.5^\circ$ )**

???

# INTRO. TO BEARINGS (GMF 10)...





## Attachments

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OP 110 Assignment - Basic Map and Compass.pdf

NOTES - Compass.pdf

OP 110 Compass Activity.docx

A. Brown (DNR) Map and Compass.pdf

Assignment - Map and Compass.docx