

Map and Compass [Orienteering]



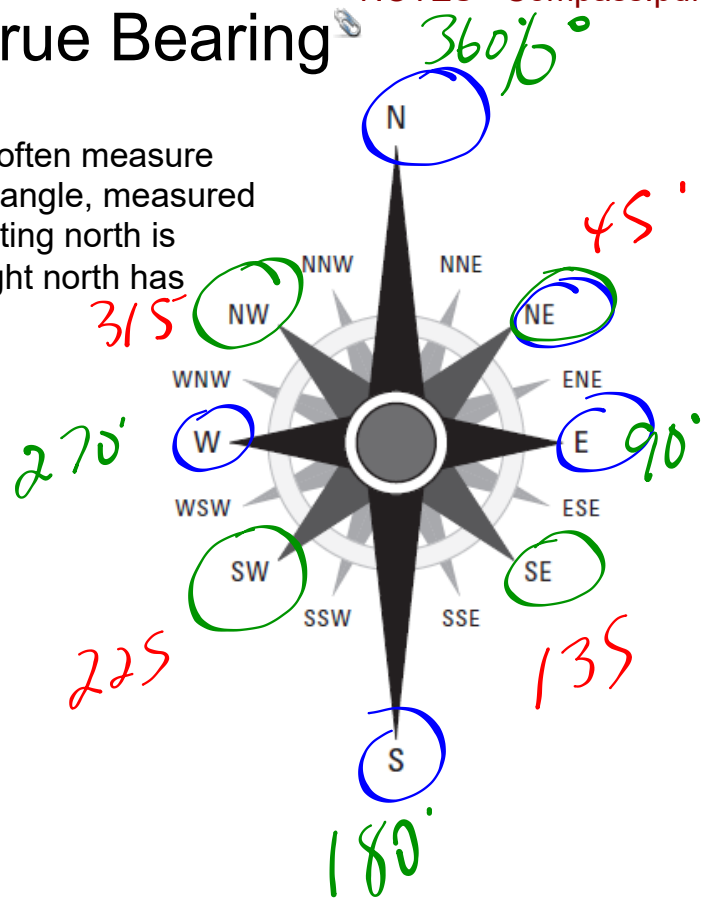
NOTES - Compass.pdf

Working with True Bearing

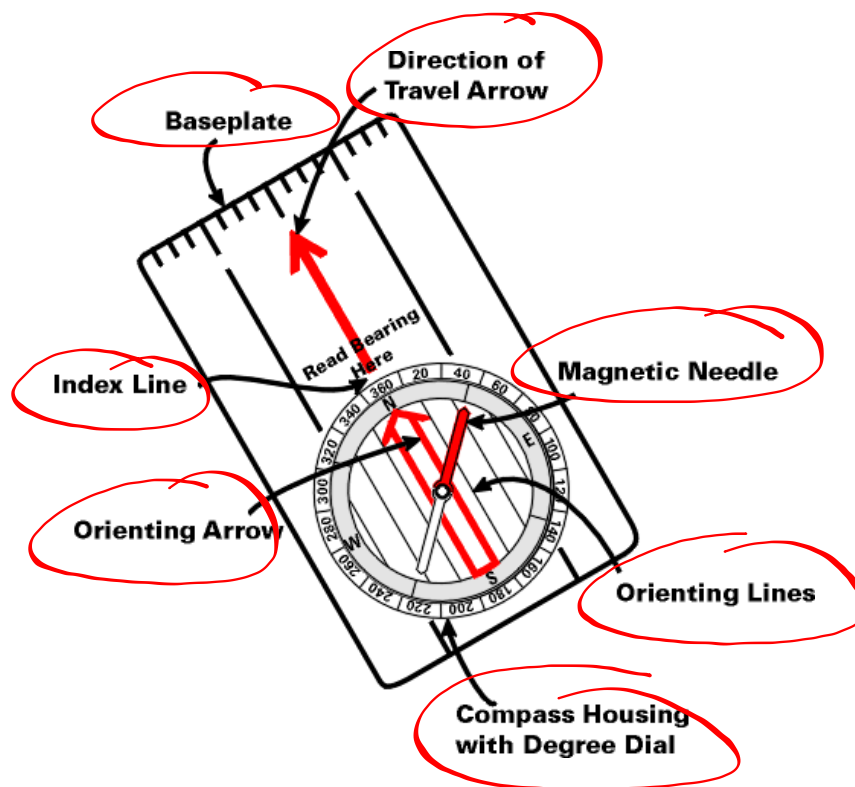
In navigation and map-making, people often measure angles from the vertical, or north. The angle, measured in a clockwise direction from a line pointing north is referred to as the **true bearing**. Straight north has a bearing of 0°

NAVIGATIONAL BEARING

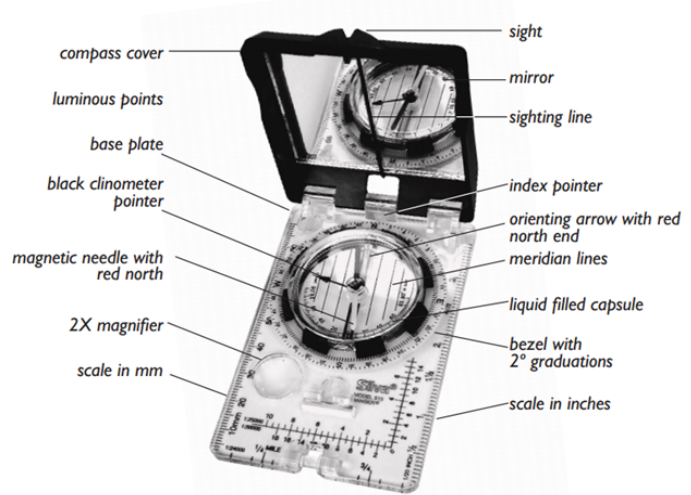
| Direction | Bearing |
|-----------|---------------|
| N | 0° |
| NNE | 22.5° |
| NE | 45° |
| ENE | 67.5° |
| E | 90° |
| ESE | 112.5° |
| SE | 135° |
| SSE | 157.5° |
| S | 180° |
| SSW | 202.5° |
| SW | 225° |
| WSW | 247.5° |
| W | 270° |
| WNW | 292.5° |
| NW | 315° |
| NNW | 337.5° |



Basic Compass...



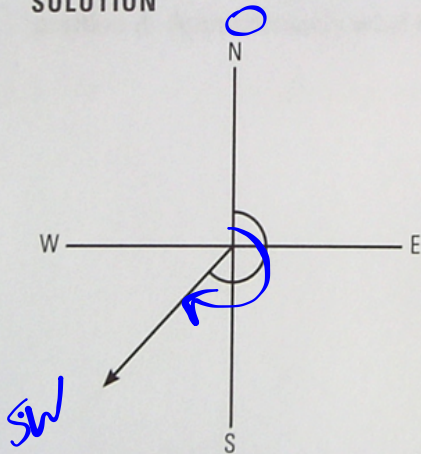
MORE PARTS TO A COMPASS...



EXAMPLE...

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

SOLUTION



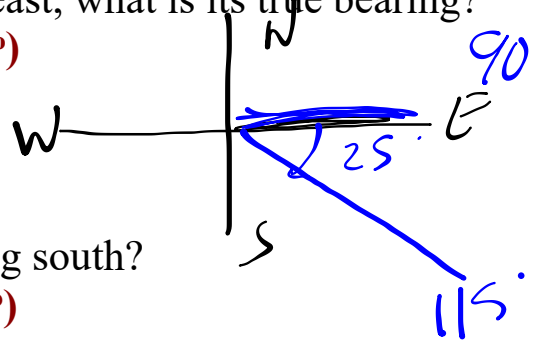
If the boat is heading southwest, measuring from the vertical will give you an obtuse angle of 225° (45° beyond a straight angle).

EXERCISE:

1) If a boat is travelling 25° south of straight east, what is its true bearing?

(Solution - 115°)

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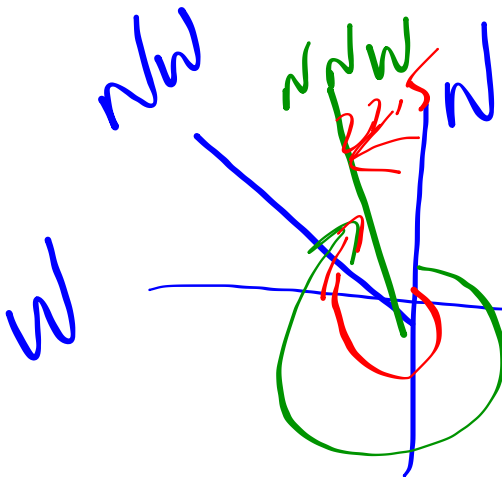
2) What is the true bearing of a boat travelling south?

(Solution - 180°)

???

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

(Solution - 337.5°)



$$\begin{array}{r} 360 \\ - 22.5 \\ \hline 337.5 \end{array}$$

???

Attachments

NOTES - Compass.pdf