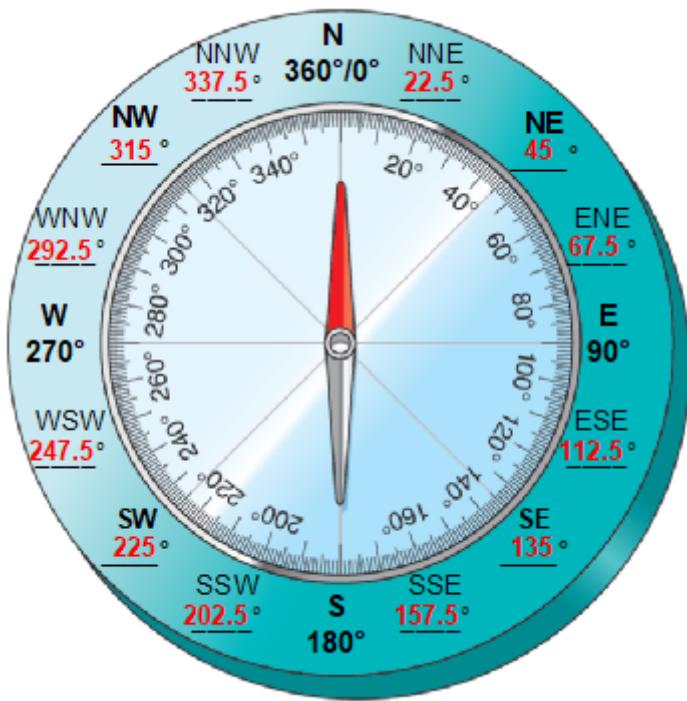
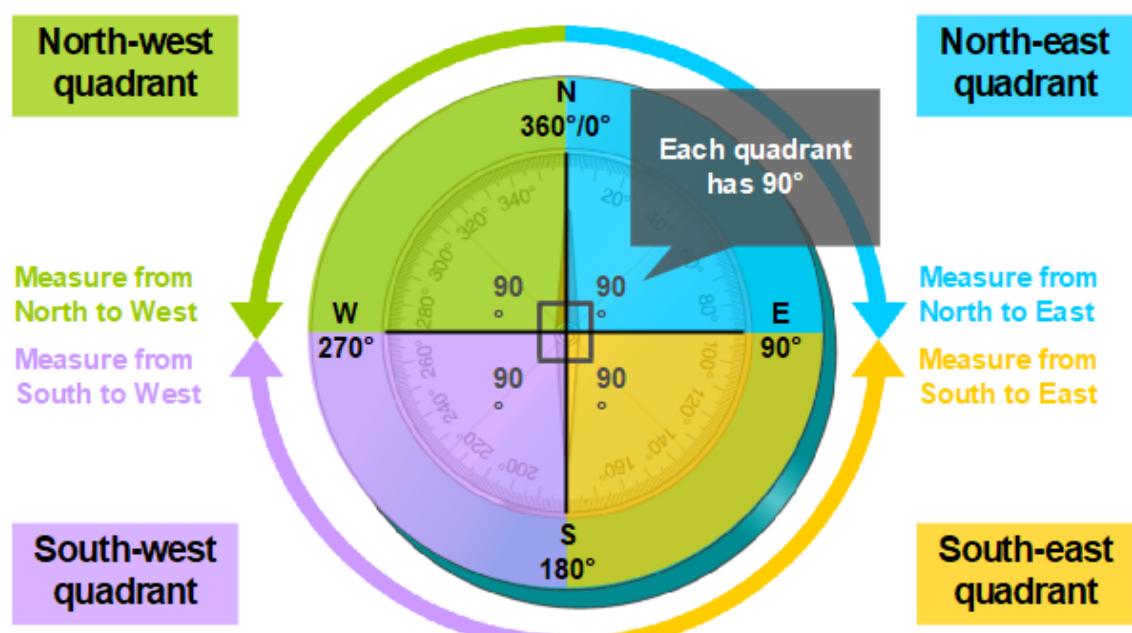


map reading

- unit 2
 - northings
 - vertical line 垂直線
 - eastings
 - horizontal line 水平線
 - 6-figure grid reference
 - divide 1 grid square → 100 smaller square
- unit 3
 - compass point
 - N 北
 - E 東
 - S 南
 - W 西
 - NE 東北
 - SE 東南
 - SW 西南
 - NW 西北
 - NNE 東北偏北
 - ENE 東北偏東
 - ESE 東南偏東
 - SSE 東南偏南
 - SSW 西南偏南
 - WSW 西南偏西
 - WNW 西北偏西
 - NNW 西北偏北
 -

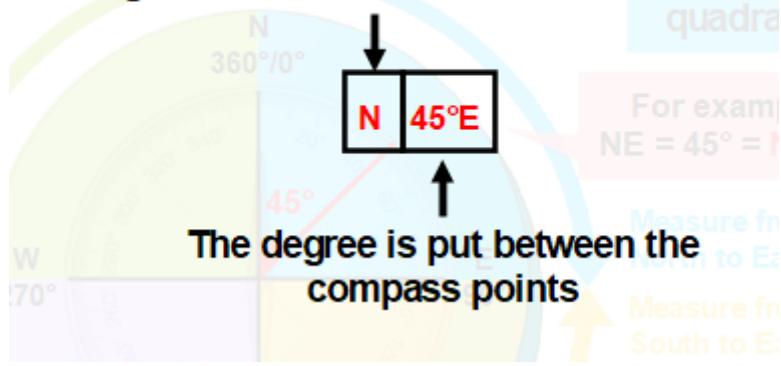


- whole circle bearing
 - divided into 360° clockwise from the north
- reduced bearing
 - from the north or the south towards the east or the west,
 -



The compass is divided into four quadrants

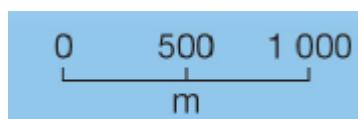
N is put at the front because the degree is measured from the north



- unit 4

- Longitude
 - vertical lines that link the North and the South Poles
 - 0° is the Prime Meridian 本初子午線
- Latitude
 - horizontal lines
 - 0° is the equator 赤道
 - divides the earth into the southern and northern hemispheres 北半球
 - - 66.5°N
 - Arctic Circle 北極圈
 - 23.5°N
 - Tropic of Cancer 北回歸線
 - 0°
 - Equator 赤道
 - 23.5°S
 - Tropic of Capricorn 南回歸線
 - 66.5°S
 - Antarctic Circle 南極圈
- continents
 - Asia 亞洲
 - Europe 歐洲
 - Africa 非洲
 - Australasia 大洋洲
 - North America 北美洲
 - South America 南美洲

- Antarctica 南極洲
- oceans
 - Arctic Ocean 北冰洋
 - Atlantic Ocean 大西洋
 - Pacific Ocean 太平洋
 - Indian Ocean 印度洋
- unit 5 (scale)
 - Ratio
 - shows the number of times enlarged or reduced
 - Large-scale map
 - a smaller area
 - more detailed information
 - Small-scale map
 - a larger area
 - shown less clearly
 - Representative fraction
 - Shows the ratio in a fraction
 - X:YYY
 - example
 - 1:50000
 - 1 cm on the map represents an actual distance of 50 000 cm (500 m)
 - Linear scale
 - shows the ratio in the form of a straight line
 - example
 - 1:500
 - 1 cm on the map represents an actual distance of 500 m
 - Statement scale
 - describes the ratio in words
 - example
 - 1 cm to 500 m



- 1 cm on the map represents 500 m on the ground
- = 1:50000