

Name: \_\_\_\_\_

Date: \_\_\_\_\_

# Angles and Bearings

1. What angle do you turn through if you turn clockwise from
  - (a) N to S.
  - (b) E to W
  - (c) N to NE.
  - (d) S to NE.
  - (e) W to NW.
  
2. What is the bearing of:
  - (a) N
  - (b) NE.
  - (c) W
  - (d) SW.
  
3. On what bearing is a ship sailing if it is heading:
  - (a) West?
  - (b) North-East?
  - (c) South-West?
  
4. What is the back bearing or reciprocal bearing to each of the bearings below?
  - (a)  $045^\circ$
  - (b)  $200^\circ$
  - (c)  $180^\circ$ .
  
5. An airplane flies from Newquay to Birmingham on a bearing of  $044^\circ$ . On what bearing should the pilot fly, to return to Newquay from Birmingham?

# Angles and Bearings

## Answers

- What angle do you turn through if you turn clockwise from
  - N to S.  $180^\circ$
  - E to W  $180^\circ$
  - N to NE.  $45^\circ$
  - S to NE.  $225^\circ$
  - W to NW.  $45^\circ$
- What is the bearing of:
  - N  $000^\circ$
  - NE.  $045^\circ$
  - W  $270^\circ$
  - SW.  $225^\circ$
- On what bearing is a ship sailing if it is heading:
  - West? **The bearing of West is  $270^\circ$**
  - North-East? **The bearing of North-East is  $045^\circ$**
  - South-West? **The bearing of South-West is  $225^\circ$**
- What is the back bearing or reciprocal bearing to each of the bearings below?
  - $045^\circ$  **The back bearing of  $45^\circ$  is  $225^\circ$  ( $45^\circ + 180^\circ = 225^\circ$ )**
  - $200^\circ$  **The back bearing of  $200^\circ$  is  $020^\circ$  ( $200^\circ - 180^\circ = 20^\circ$ )**
  - $180^\circ$ . **The back bearing of  $180^\circ$  is  $000^\circ$  (North is not  $360^\circ$ )**
- An airplane flies from Newquay to Birmingham on a bearing of  $044^\circ$ . On what bearing should the pilot fly, to return to Newquay from Birmingham?

**$224^\circ$**