

Hamish is on the factory ship in the middle of the fishing fleet.

- Which boat does he see when he looks
  - North Mull
  - West Coll
  - Northwest Tiree
  - Southeast Barra
  - Northeast Arran
  - South? Islay
- In which direction is he facing when he turns from North
  - 90° clockwise E
  - 45° anti-clockwise NW
  - 135° clockwise SE
  - 90° anti-clockwise W
  - 135° anti-clockwise SW
  - 180° clockwise? S
- Copy and complete the table.

Hamish faces	he turns through	he now faces
Skye	90° clockwise	Islay
Arran	180° anti-clockwise	Jura
Tiree	135° clockwise	Skye
Jura	360° anti-clockwise	Jura
Coll	270° clockwise or 90° anticlockwise	Islay
Arran	45° clockwise or 315° anticlockwise	Skye
Jura	90° clockwise or 270° anticlockwise	Tiree
Barra	225° clockwise or 135° anticlockwise	Mull
Jura	135° anti-clockwise	Skye

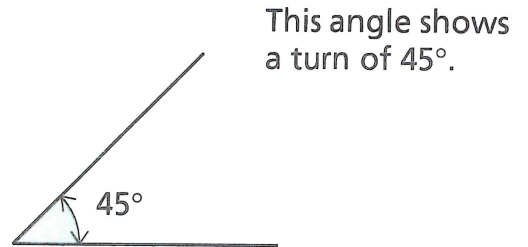
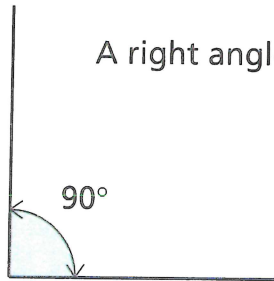
Ask your teacher what to do next.

# Weather machine

Do Workbook page 22.

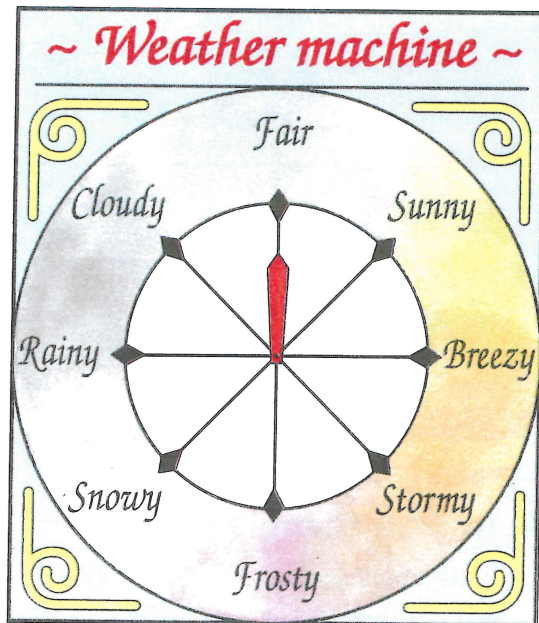
Angles are measured in degrees.  
One degree is a very small turn and can be written as  $1^\circ$ .

This angle is one degree.



1 Copy and complete this table.

Right angles	$\frac{1}{2}$	1	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Degrees	$45^\circ$	$90^\circ$	$135^\circ$	$180^\circ$	$225^\circ$	$270^\circ$	$315^\circ$	$360^\circ$



2 Start at *Fair* each time. What weather is shown when you turn the red pointer

- (a)  $90^\circ$  clockwise *Breezy*
- (b)  $90^\circ$  anti-clockwise *Rainy*
- (c)  $45^\circ$  clockwise *Sunny*
- (d)  $180^\circ$  anti-clockwise
- (e)  $225^\circ$  clockwise? *Frosty Snowy*

3 Through how many degrees and in which direction does the pointer turn when it goes from

- a)  $90^\circ$  clockwise or  $270^\circ$  anticlockwise
- c)  $180^\circ$  clockwise or  $180^\circ$  anticlockwise
- e)  $135^\circ$  clockwise or  $225^\circ$  anticlockwise
- g)  $135^\circ$  clockwise or  $225^\circ$  anticlockwise

- (a) Fair to Breezy
- (b) Breezy to Sunny
- (c) Sunny to Snowy
- (d) Snowy to Stormy
- (e) Stormy to Rainy
- (f) Rainy to Frosty
- (g) Frosty to Cloudy
- (h) Cloudy to Sunny?

- b)  $315^\circ$  clockwise or  $45^\circ$  anticlockwise
- d)  $270^\circ$  clockwise or  $90^\circ$  anticlockwise
- f)  $270^\circ$  clockwise or  $90^\circ$  anticlockwise
- h)  $90^\circ$  clockwise or  $270^\circ$  anticlockwise