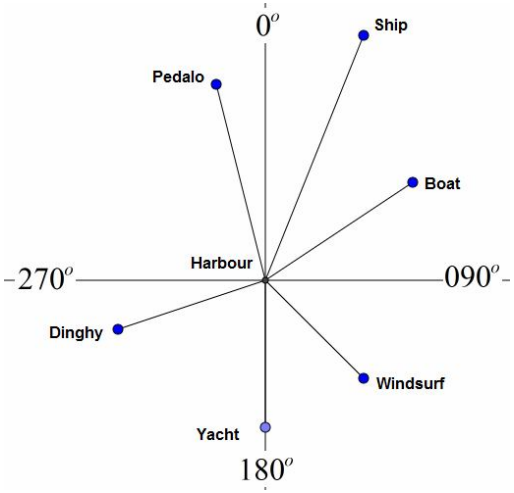
3 Figure Bearings www.m4ths.com

Task 1 – Measuring Bearings Part 1

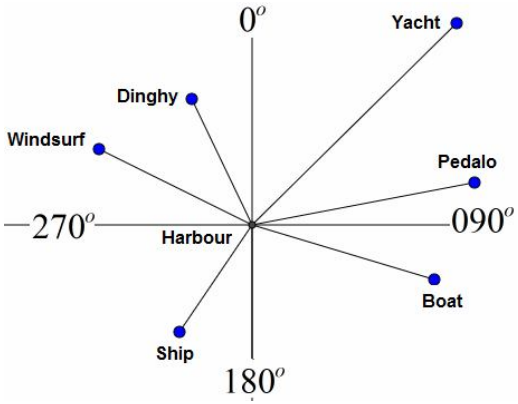
Rules for 3 Figure Bearings
(1) Measure from North
(2) Measure clockwise
(3) The bearing must have 3 figures

(1) The diagram below shows 6 different water vehicles.



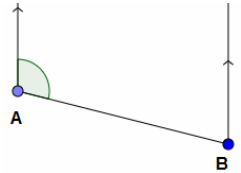
Copy and complete the following sentences:
(a) The _____is on a bearing of 030º from the Harbour.
(b) The _____is on a bearing of 135º from the Harbour.
(c) The _____is on a bearing of 340º from the Harbour.
(d) The _____is on a bearing of 060º from the Harbour.

(2) Measure the bearing of each water vehicle from the Harbour **using a protractor**.

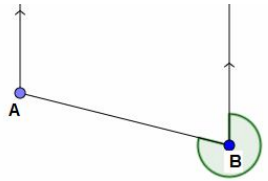


Task 2 – Measuring Bearings Part 2

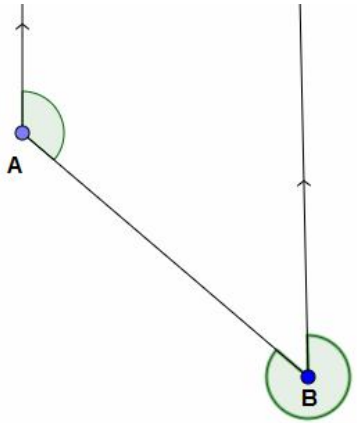
The Bearing of B from A is the angle shown below

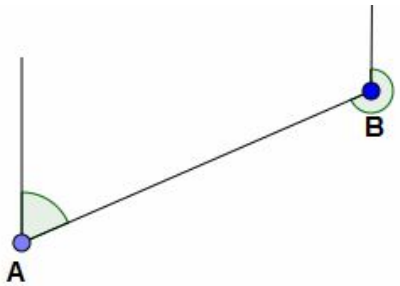


The Bearing of A from B is the angle shown below



(1) Measure the bearing of B from A **and** the bearing of A from B for each of the following.





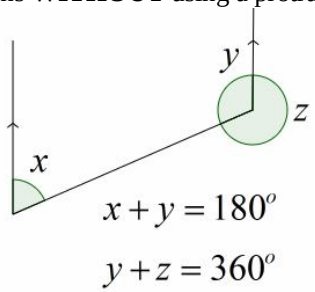
(2) Measure the bearing of B from A **and** the bearing of A from B for each below:
(Tip – Draw North lines at A and B)

(a)

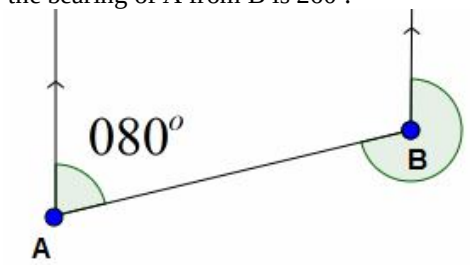
(b)

Task 3 – Angle Facts to Calculate Bearings

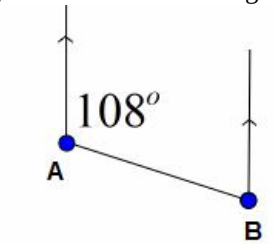
You can use angles facts in parallel lines and angles around a point to solve bearings questions **WITHOUT** using a protractor.

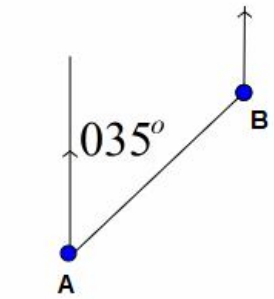


(1) The bearing of B from A is 080º. Explain why the bearing of A from B is 260º.



(2) CALCULATE (That means don't measure) the bearing of A from B in the diagrams below:





Task 4 – Drawing (Bearings and Distances)

(1) The point A is shown below. Using a ruler and a protractor draw the following:

(a) The point B which is on a bearing of 045º from A and 2km away.
(b) The point C which is on a bearing of 110º from A and 1.5km away.
(c) The point D which is on a bearing of 225º from A and 3km away.
(d) The point E which is on a bearing of 060º **from D** and 4km away.
(e) The point F which is on a bearing of 310º **from B** and 500m away.

(Use the scale 1cm = 1km)