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.

-270° 0° 090° 180° 270° 360°

Harbour

-270° 0° 090° 180° 270° 360°

Dinghy

Yacht

Windsurf

Pedalo

Boat

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

Copy and complete the following sentences:
(a) The ______ is on a bearing of 030º from the Harbour.
(b) The ______ is on a bearing of 1035º 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.

Task 2 – Measuring Bearings Part 2

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

The Bearing of B from A is the angle shown below.

The Bearing of A from B is the angle shown below.

(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)

The Bearing of B from A is the angle shown below.

The Bearing of A from B is the angle shown below.

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.

-270° 0° 090° 180° 270° 360°

x + y = 180°

y + z = 360°

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)