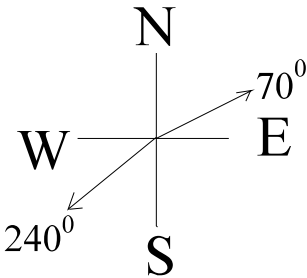


INVESTIGATION # 13

BEARINGS

All bearings are taken from North in a clockwise direction.



The diagram here shows bearings of 70° and 240°.

TASK 1: Complete this table of values by using a protractor to measure the bearings in the diagram below:

		TO				
		A	B	C	D	E
FROM	A	-				
	B		-			
	C			-		
	D				-	
	E					-

. A

. B

. D

. E

. C

TASK 2: Now draw up a map of the points F, G, H, I, and J below that fits in with this table.

		TO				
		E	F	G	H	I
FROM	E	-	120°, 6cm	200°, 13cm	130°, 11cm	170°, 9cm
	F		-			
	G			-		
	H				-	
	I					-

TASK 3: Complete the table above giving bearings and distances.

TASK 4: When mining leases are pegged they are usually declared in a newspaper. The following mining lease was taken from "The West Australian" on Wednesday May 10th.

From datum point (starting point) thence
 1799·39m on a bearing of 353° 20' 07",
 2991·1m on a bearing of 83° 20' 21",
 1799·4m on a bearing of 173° 20' 37",
 2998·9m on a bearing of 263° 20' 23" back
 to datum.

Draw a map of this mining lease (as accurately as possible). Your map should be drawn to scale using a scale of 1cm = 100m. All angles (bearings) should be as accurate as possible.

ASSESSMENT TASK

Complete the following two tasks:

Task 1: Use the diagram below this table to complete the table giving the bearings.

FROM	TO	BEARING
A	B	
C	B	
C	A	
B	C	

A ●

● B

C ●

TASK 2: On this page draw a map of the area defined by the information below.
Use a scale of 1 cm = 100m.

From the bottom left corner of the page the starting point A is 800m on a bearing of 40° . From A draw a line to B which is 1700m on a bearing of 350° . Then draw from B 1450m to C on a bearing of 110° . Connect point C with Point D which is 1300m away on a bearing of 170° . Connect D to A then answer these questions:

- (a) How far is A from D? _____
- (b) What bearing is A from D? _____