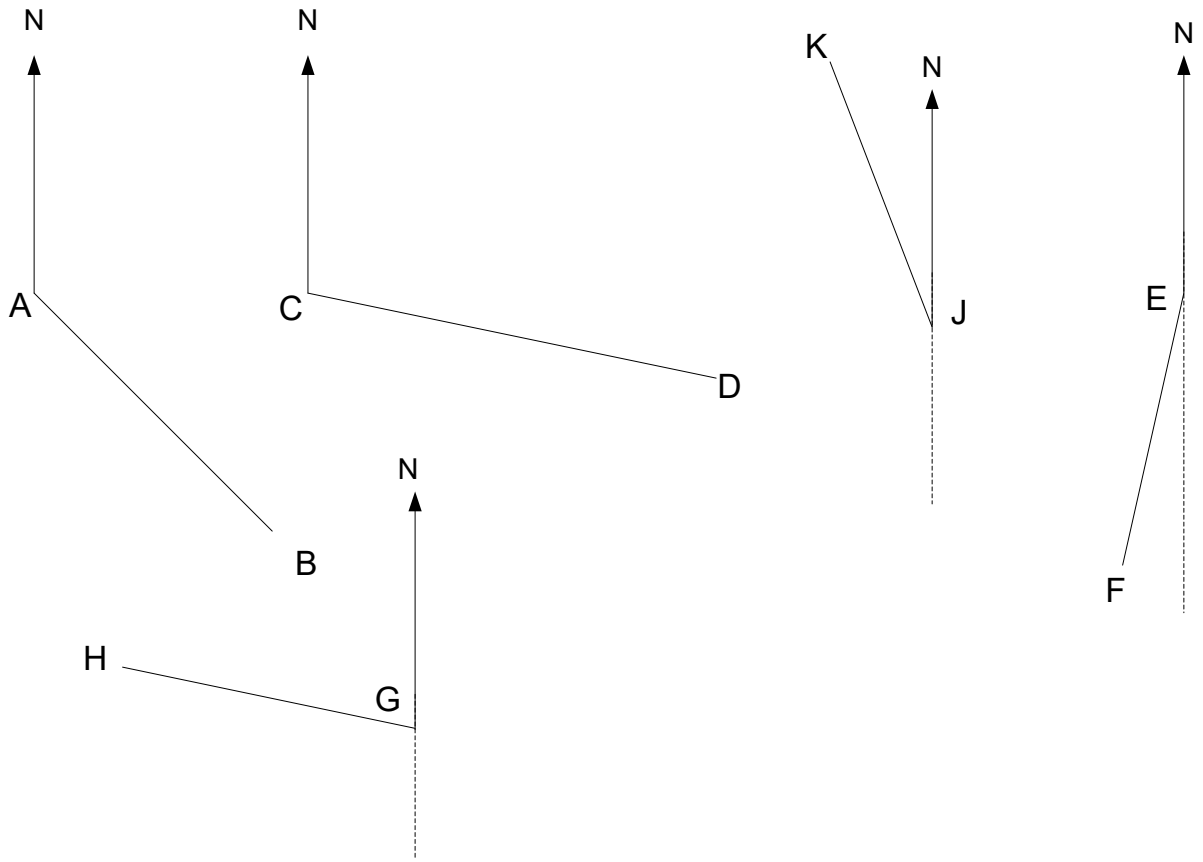
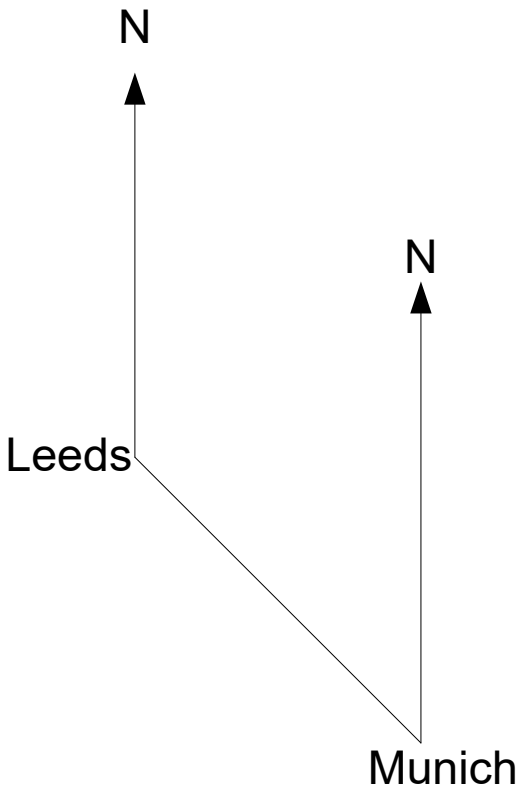
Bearings

1 Bearings are always measured from North.
2 Two North lines are considered to be parallel.
3 Bearings are 3 digit numbers so 47° is 047°.
4 Bearings are measured in degrees, minutes and seconds.
5 There are 60 minutes in one degree.
6 There are 60 seconds in one minute.

Q1 Use a protractor and a ruler to measure the bearing of each line and the length of each line to the nearest mm.



Q2 A flight flies from Leeds to Munich. The path of the flight is shown below.



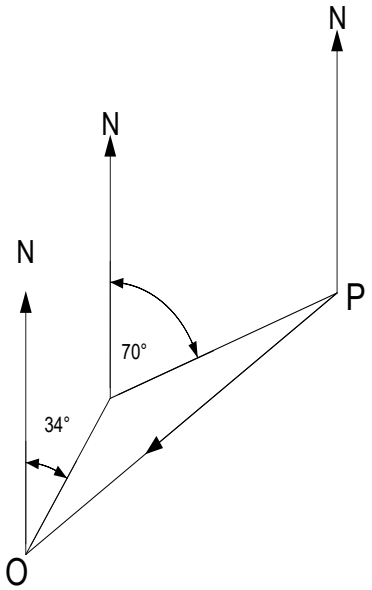
a If the scale is 1:20,000,000, how far is it to Munich from Leeds?

b On what bearing must the pilot from Leeds fly to get to Munich?

c On what bearing must the pilot from Munich fly to reach Leeds?

d Can you spot anything about these bearings?

Q3 A boat is out at sea at point O. The boat is heading for port at P. The navigator plots a course of 034° for five miles and then 070° for eight miles.



What course should the navigator plot to return straight to his original position?

How far is the journey?

Draw a scale diagram with a scale of 1cm = 1 mile and measure the bearing

The diagram to the left is there to show you what is meant by the question. It is not drawn to scale.

Answers

Q1	A→ B	135°	49.5mm
	C→ D	102°	61 mm
	J→ K	339°	42mm
	E→ F	192°	40mm
	G→ H	282°	44mm

Q2 Leeds → Munich 135°

Munich → Leeds 315°

Distance 740km

Q3 236° for 12.4 miles