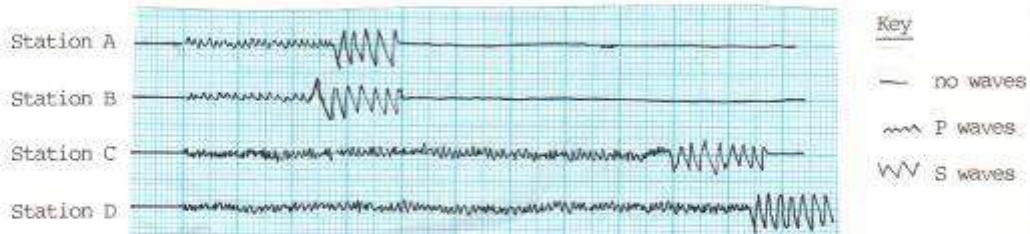


## EARTHQUAKES

E.S. 7

The seismographs received from the same earthquake were obtained from 4 independent stations in Britain. You are required to plot accurately the epicentre.

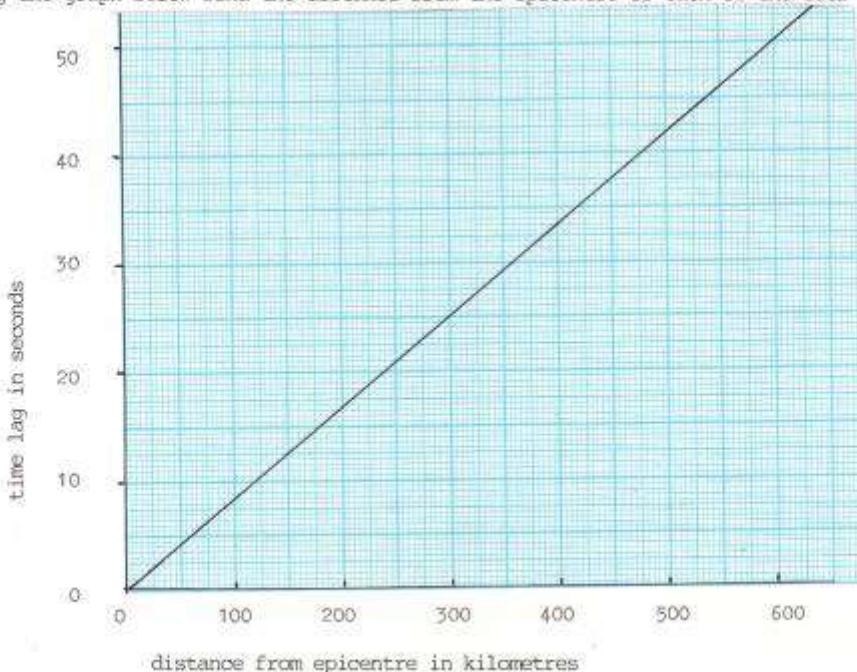
- a) Firstly, find the time lag between arrival of P and arrival of S waves at each of the stations from the seismographs.



Scale 1 cm = 5 seconds

Write your answers on sheet 2

- b) Using the graph below find the distance from the epicentre of each of the four stations



Write your answers on sheet 2

EARTHQUAKES PRACTICAL sheet 2

Answers to a and b

Station A      Station B      Station C      Station D

Time lag in seconds

Distance in Kilometres

- c) Locate the epicentre of the earthquake by drawing an arc for each station using the station as the centre and the epicentral distance as the radius.

Station A Edinburgh  
Station B Aberdeen  
Station C Aberystwyth  
Station D Cambridge



State the geographical location where the epicentre occurred and give a reason why you think it occurred at this location