## WEATHER & CLIMATE

## REPLACES LAB PAGES 8 & 9

A 11)	How many degrees of longitude are there (shortest distance) between:
a.	90°E and 170°E
b.	75°W and 105°W
C.	75°W and 30°E
d.	105°W and 105°E (special case involving International Date Line)
<b>1</b> 2)	Find the shortest distance in statute miles and kilometers:
a.	Between the Galapagos Islands (0°, 90° W) and the Howland islands (where Amelia Earha disappeared (0°, 177° W).
	Statute Miles
	Kilometers
b.	Between Seward, Alaska (60° N, 150° W) and Oslo, Norway (60° N, 12° E)
	Statute Miles
	Kilometers
c.	Between Camden, NJ (40° N, 75° W) and Beijing, China (40° N, 118° E)
	(special case involving International Date Line)
	Statute Miles
	Kilometers
d	Distance in Latitude: Between Albuquerque, NM (35° N) and Boulder, CO (40° N)
	Statute Miles
	Kilometers
Dec	imalization of Latitude and Longitude
degre	National Weather Service (NWS) uses the decimal system with degrees and tenths of degrees not es, minutes and seconds. For example, $42^{\circ}$ 30' N is equal to $42.5^{\circ}$ N. To decimalize a latitude and ude all you need to do is to divide the minutes reading by $60$ (i.e. $30^{\circ}/60 = 0.5^{\circ}$ , $45^{\circ}/60 = 0.75^{\circ}$ ).
<b>1</b> 3	Decimalize the following latitude and longitude readings:
a.	25° 30′ N b. 110° 15′ E
C.	10° 45′ S d. 88° 5′ N
e.	5° 55' N f. 57° 47' 22" S