

Version C

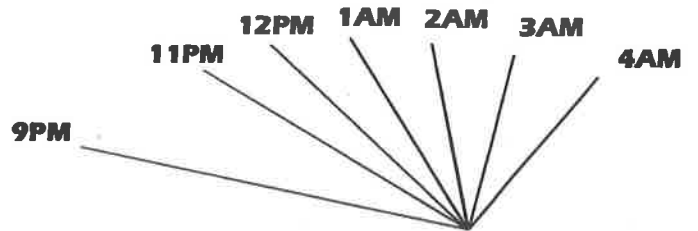
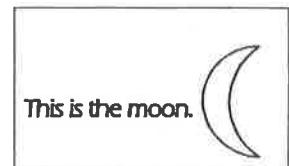
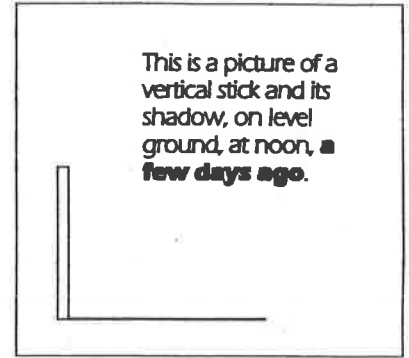
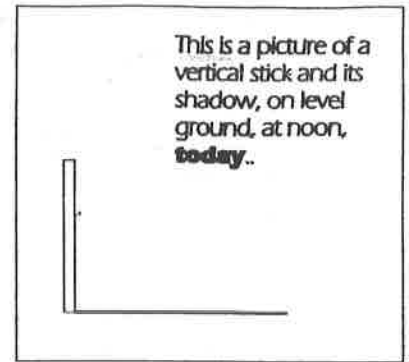
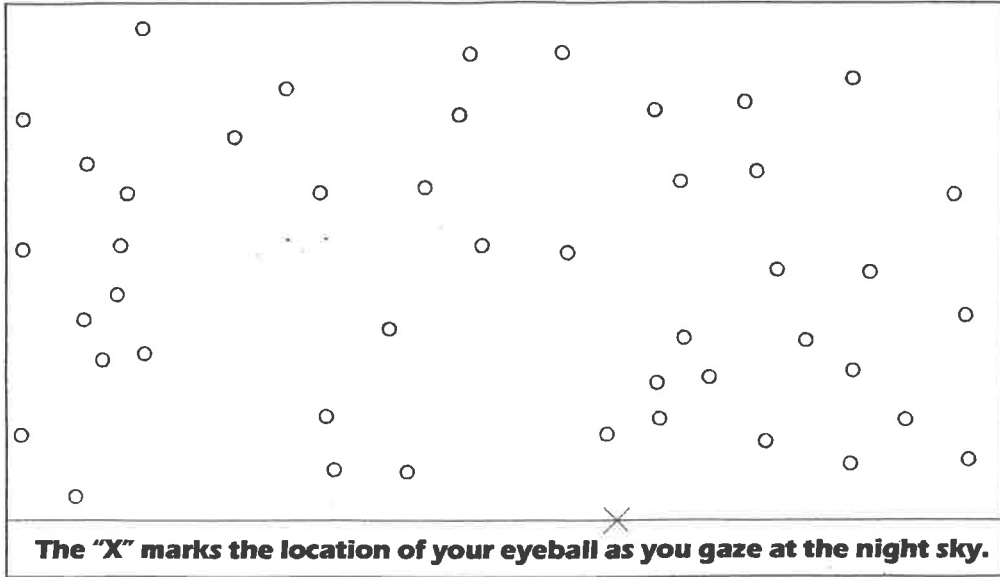
Name: _____

HONORS PRACTICE TEST (Lost Honors Student Scenario)

You're lost. The diagrams on the back represent your observations and gadgets. Use the diagrams to answer the questions below.

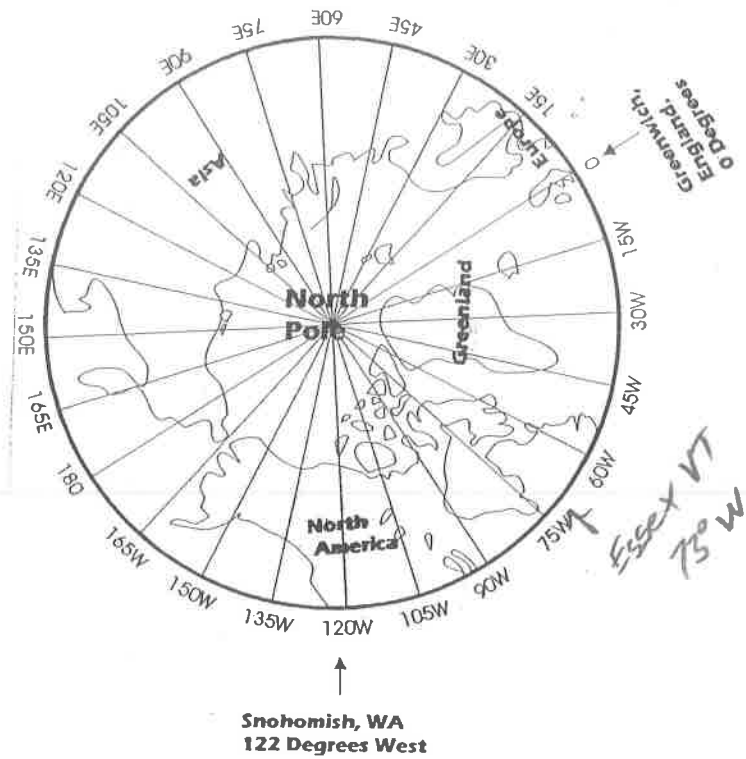
DARKEN THE CORRECT ANSWER

1. What's your latitude (in degrees north)?
0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90
2. What's your island's longitude?
0-15W 15-30W 30-45W 45-60W 60-75W 75-90W 90-105W 105-120W 120-135W
135-150W 150-165W 165W-180
0-15E 15-30E 30-45E 45-60E 60-75E 75-90E 90-105E 105-120E 120-135E
135-150E 150-165E 165E-180
3. Which way will you need to travel in order to get to ~~Essex~~ the fastest? Eastward Westward
4. Which solstice is coming next? Summer Winter
5. What is the current angle of incidence of sunlight at noon?
1 6 11 16 21 26 31 36 41 46 51 56 61 66 71 76 81 86 91
6. How many degrees is the north end of the earth's axis tilting (in the direction of the sun)?
-4 -9 -14 -19 -24 0 +4 +9 +14 +19 +24
7. What is today's date? Make a thin, dark mark at the correct date on the timeline below.
1/1 2/1 3/1 4/1 5/1 6/1 7/1 8/1 9/1 10/1 11/1 12/1 1/1
8. What season is it?
Winter Spring Summer Fall
9. How many hours of daylight will you have today? Make a thin, dark mark on the timeline.
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
10. At your latitude, should your current season be particularly wet, dry, or neither?
Wet Dry Neither
11. Do you have prevailing winds that blow in the general direction of ~~Essex~~?
Yes No
12. What is the present moon phase?
Full New Waxing (1st) Quarter Waning (3rd or last) Quarter
Waxing Gibbous Waning Gibbous Waxing Crescent Waning Crescent
13. Approximately how many weeks will you have to wait until there's a spring tide in your area?
0 ½ 1 1 ½ 2 2 ½ 3 3 ½
14. By monitoring the tides over a period of several weeks you've noticed that high and low tide are shifted 3 hours forward by the rotation of the earth. What is the approximate time of high tide, today?
12 AM/PM 3 AM/PM 6 AM/PM 9 AM/PM
15. Assuming there will be a lunar eclipse some time during the next month, in how many weeks will that occur?
0 ½ 1 1 ½ 2 2 ½ 3 3 ½



Shadows cast by a vertical stick at various times of day. Times are according to your watch, which is set to ~~Spanish~~ time.

ESSX



Time Versus Axial Tilt

