

**2007 North Carolina State Science Olympiad  
B-Division Road Scholar Event  
Intracoastal Cruise**

- |   |  |
|---|--|
| 1. Multilane highway  | 20. (10 pts) 34' No part credit.   |
| 2. U.S. 258   | 21. Flat   |
| 3. Jacksonville   | 22. 52'  |
| 4. Multilane Divided Access Fully Controlled  | 23. North  |
| 5. New River  | 24. South or Southeast   |
| 6. Military   | 25. (20 pts) Grade the lat and long separately, then add the points.   |
| 7. Highway or Route 24  | Lat: 34°33'05" (10 pts)  |
| 8. Under 2,000  | Long: 77°20'16" (10 pts)   |
| 9. (5 pts) 34 miles, or 55 km.<br>Partial credit:<br>30-32 miles - 2 pts<br>33-36 miles - 5 pts<br>37-40 miles - 2 pts  | (N Lat and W Long are understood in North America.)<br>Lat partial credit chart:<br>34°32'46" to 34°32'50" - 3 pts<br>34°32'51" to 34°32'55" - 6 pts<br>34°32'56" to 34°33'00" - 8 pts<br>34°33'01" to 34°33'09" - 10 pts<br>34°33'10" to 34°33'14" - 8 pts<br>34°33'15" to 34°33'19" - 6 pts<br>34°33'01" to 34°33'24" - 3 pts<br>Long partial credit chart:<br>77°19'57" to 77°20'01" - 3 pts<br>77°20'02" to 77°20'06" - 6 pts<br>77°20'07" to 77°20'11" - 8 pts<br>77°20'12" to 77°20'20" - 10 pts<br>77°20'21" to 77°20'25" - 8 pts<br>77°20'26" to 77°20'30" - 6 pts<br>77°20'31" to 77°20'35" - 3 pts |
| 10. 1997  |  |
| 11. 5 feet  |  |
| 12. 1:24,000  |  |
| 13. 1950  |  |
| 14. 1933  |  |
| 15. Blue  |  |
| 16. 40 ft below sea level.  |  |
| 17. (10 pts) 15,400 ft. or 4690 m.<br>Partial credit: (Convert for meters)<br>14,800' to 14,900' - 3 pts<br>15,000' to 15,100' - 6 pts<br>15,200 to 15,300 - 8 pts<br>15,400' - 10 pts<br>15,500 to 15,600' - 8 pts<br>15,700' to 15,800' - 6 pts<br>15,900' to 16,000' - 3 pts |  |
| 18. (2 pts) 1:20<br>1 pt for 1:15 or 1:25   | 26. Swamp  |
| 19. Sand dunes  | 27. Camp Lejeune Military Reservation, or similar  |
|   | 28. 12 ft.   |
|   | 29. No   |
|   | 30. (5 pts) The elevation of bottom of the   |

bay varies between 2 and 5 feet under sea level. These all are less than the 6 ft required by the boat. The boat would run aground. Give credit based on how specific the answer is.

items. Weight contours more heavily.

Tiebreakers for equal total scores:

Questions in reverse order. So 33, then 32, then 31, etc.

31. (10 pts) 284°. Partial credit:

Partial credit:

277° to 278° - 3 pts

279° to 280° - 6 pts

281° to 282° - 8 pts

283° to 285° - 10 pts

286° to 287° - 8 pts

288° to 289° - 6 pts

290° to 291° - 3 pts

32. (3 pts) Topsail Island. (Look on the Transportation map for the name.) No part credit.

33. (20 pts) Grade the map for:

Title

North Arrow

Scale or N.T.S. (Extra if it is to scale, but only if its accurate.)

3 roads, and road names

Waterway, and shores, and name

Creek and name

Swamp

Contours

Buildings

Light shore road

BM Tank (M)

Dunes

Sand

Ocean shore

Beach name

Grade for both presence and quality of these