

ANSWER

Round: 13B

Use the nautical chart provided to answer the following questions.

You and your friends are heading out for a boating trip along the Jersey Shore in your cuddy cabin cruiser. The cruiser has a 6.5ft. beam, is 18 ft long, and has a draft of 1.4ft. It also has a 40hp motor, and a foldable (or collapsible) VHF antenna that stands 10ft above the water.

1. Why should you review the edition number located in the lower left-hand corner (or the upper right-hand corner) of the nautical chart prior to departing on our trip?

The edition number tells us how old the chart is because conditions within waterways may change over time. (1 pt)

2. a. Departing from the Shark River Municipal Boat Basin, and traveling East toward the Shark River Inlet, which obstacle will cause your crew their first issue, and why?

The bridge (1 pt), because it only has an 8ft clearance and our antenna is 10ft tall (1 pt).

- b. How will you overcome this issue?

Temporarily fold OR collapse the antenna (1 pt)

3. After passing under two bridges you approach two markers – (1st) **Fl R 4s 33ft 6M “2”** and (2nd) **Fl G 4s 33ft 6M “1”**.

- a. What is the name for these types of markers?

Fixed light(s) (1 pt)

- b. What do the series of letters and numbers on the first marker mean? (6 pts)

Fl= flashing light

6M = how far the light can be seen, 4

R = red (color of flashing light)

miles

4s = how often it flashes, 4 seconds

“2”= channel marker number

33ft= how tall the light is

- c. On what side of the boat should the marker “1” pass? Use the nautical term.

Starboard side (1 pt)

4. As you travel out of the Shark River you cross the COLREGS demarcation line. What does crossing this line mean?

Accept ANY ONE of the following for 2pts:

- Imaginary line or point that defines where you transition/change between Inland Rules and International Rules

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- The political line that divides inland waterways (subject to one set of navigation rules) and coastal waterways (subject to international navigation rules)
5. After leaving the mouth of the Shark River you begin to traveling toward the Manasquan River Inlet at 10 knots along the 30 ft contour line.
- a. How many nautical miles will you cover in 6 minutes? Show your work.
- 1 nautical mile (2 pts)
- $10 \text{ kt} * (1 \text{ NM}/(\text{hr} * \text{kt})) * (1 \text{ hr}/60 \text{ min}) * 6 \text{ min}$ (1 pt)
6. At the Manasquan River Inlet, there is a jetty. How is a jetty identified on the nautical chart?
- Parallel lines (1pt)
7. After entering the Manasquan River Inlet and going under the railroad bridge, you note that the chart marks the channel more frequently. Why is this?
- The dredged channel now occupies a smaller fraction of the entire width of the waterway. The dredged channel has a controlled depth. The soundings outside the dredged channel are provided by NOAA and are listed more frequently because there is space for the annotation (1 pt). Boats need to take care to stay in the dredged channel. (1pt)

Reference

Symbols and abbreviations: <http://www.nauticalcharts.noaa.gov/mcd/chartno1.htm>

Chart being referenced: <http://www.charts.noaa.gov/OnLineViewer/12324.shtml>