

U.S.C.G. Merchant Marine Exam  
Mate Uninspected Fishing Vessels  
Q192 Navigation Problems - Chart 13205TR  
(Sample Examination)

**Choose the best answer to the following Multiple Choice questions.**

1. The following questions are based on Chart 13205TR, Block Island Sound, and the supporting publications.

Your vessel draws 8 feet (2.4 meters), and the height of eye is 24 feet (7.3 meters).  
Use 15°W variation where required.  
The gyro error is 2°W

***DEVIATION TABLE***

<b><u>Magnetic Heading</u></b>	<b><u>Deviation</u></b>
030°	3.0°E
060°	1.0°E
090°	1.0°W
120°	3.0°W
150°	4.0°W
180°	4.0°W
210°	3.0°W
240°	1.0°W
270°	1.0°E
300°	3.0°E
330°	4.0°E
360°	4.0°E

You are steering 087°pgc and turning for 6.8 knots.

At 0600, you take the following bearings:  
Little Gull Island Light bearing 089.5° pgc  
Bartlett Reef Light bearing 047° pgc

What is your 0600 position?

- (A) LAT 41°11.2'N, LONG 72°14.6'W
- (B) LAT 41°12.1'N, LONG 72°13.8'W
- (C) LAT 41°12.3'N, LONG 72°14.7'W
- (D) LAT 41°12.5'N, LONG 71°14.9'W

*If choice B is selected set score to 1.*

2. If you change course at 0610, what is the course to steer to a point where Little Gull Island Light bears  $180^{\circ}T$  at 0.7 mile (Point "A")?

- (A)  $076^{\circ}pgc$
- (B)  $080^{\circ}pgc$
- (C)  $084^{\circ}pgc$
- (D)  $072^{\circ}pgc$

*If choice B is selected set score to 1.*

3. What is your ETA at point "A"?

- (A) 0702
- (B) 0651
- (C) 0655
- (D) 0640

*If choice B is selected set score to 1.*

4. You calculate that the current will be ebbing at the Race at 0700. You should expect to be set in which general direction at the Race?

- (A) North
- (B) West
- (C) Northeast
- (D) East

*If choice D is selected set score to 1.*

5. From your 0610 DR, assuming no set and drift, at what time will you enter waters governed by the COLREGS?

- (A) 0714
- (B) 0705
- (C) 0711
- (D) 0701

*If choice D is selected set score to 1.*

6. From point "A", you lay out an intended track line to a point where Block Island North Light bears  $180^{\circ}T$  at 2.9 miles (Point "B"). What is the length of this leg of the voyage?

- (A) 20.4 miles
- (B) 23.7 miles
- (C) 23.9 miles
- (D) 24.4 miles

*If choice D is selected set score to 1.*

7. What is the course per standard magnetic compass between points "A" and "B"?

- (A) 098.5°
- (B) 094.5°
- (C) 099.5°
- (D) 095.5°

*If choice A is selected set score to 1.*

8. At 0715 you take the following bearings:

Race Rock Light 328°pgc  
Little Gull Island Light 249°pgc  
Mt. Prospect Antenna 036°pgc

Based on your 0715 fix, which statement is TRUE?

- (A) You are in a cable area.
- (B) You are governed by the Inland Rules.
- (C) Your fathometer reads about 265 fathoms.
- (D) You are to the left of your track line.

*If choice D is selected set score to 1.*

9. From your 0715 position, you set a course of 085°T.

At 0745 you take the following bearings:

Race Rock Light 278°pgc  
Watch Hill Light 049°pgc  
Fisher's Island East Harbor Cupola 010°pgc

What was the current encountered between 0715 and 0745?

- (A) Set 070°T, drift 0.6 knot
- (B) Set 030°T, drift 0.4 knot
- (C) Set 216°T, drift 0.3 knot
- (D) Set 238°T, drift 1.0 knot

*If choice A is selected set score to 1.*

**10.** The wind is southerly, and you estimate 3° leeway. Allowing for leeway, what is the course to steer from your 0745 position to pass 1 mile south of Watch Hill Buoy "WH"?

- (A) 085°pgc
- (B) 081°pgc
- (C) 079°pgc
- (D) 087°pgc

*If choice D is selected set score to 1.*

**11.** From your 0745 fix, you change course to pass 1.0 mile south of buoy "WH" and estimate your speed at 7 knots. If the visibility clears, what is the earliest time you can expect to see Block Island North Light tower?

- (A) 0838
- (B) 0807
- (C) 0845
- (D) 0750

*If choice B is selected set score to 1.*

**12.** Which statement describes the shore between Watch Hill Point and Point Judith?

- (A) Low, rocky cliffs with heavily wooded hills inland
- (B) Sandy beaches broken by rocky points
- (C) Sand dunes and beaches with a mud and sand bottom
- (D) Wooded, barren hills with isolated prominent buildings

*If choice B is selected set score to 1.*

**13.** At 0830, Watch Hill Point bears 343°T at 3.5 miles by radar. What was the speed made good since 0745?

- (A) 5.8 knots
- (B) 6.7 knots
- (C) 7.1 knots
- (D) 5.4 knots

*If choice C is selected set score to 1.*

**14.** At 0900, you take the following radar ranges: Watch Hill Point 5.4 miles Block Island Grace Point 8.3 miles Which statement is TRUE?

- (A) You are within 3 nautical miles of the coast.
- (B) The fix is indeterminate.
- (C) The bottom in the area is sand and gravel.
- (D) You are governed by the Inland Rules.

*If choice B is selected set score to 1.*

**15.** At 0930, your position is LAT 41°16.5'N, LONG 71°41.4'W, and you are turning for 7 knots. Allowing 3° leeway for southerly winds and estimating the current as 035° at 0.3 knot, what is the course to steer (pgc) to point "B"?

- (A) 096°pgc
- (B) 093°pgc
- (C) 089°pgc
- (D) 091°pgc

*If choice A is selected set score to 1.*