## **National Maritime Center**

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U.S.C.G. Merchant Marine Exam

Mate Offshore Supply Vessels

Q213 Chart 12354TR

(Sample Examination)

Q213 Chart 12354TR U.S.C.G Merchant Marine Exam Mate Offshore Supply Vessels Illustrations: 0

Choose the best answer to the following Multiple Choice Questions.

**1.** The following questions should be answered using Chart 12354TR, Long Island Sound - Eastern Part, and the supporting publications.

Your draft is 12 feet (3.6 meters) Your height of eye is 16 feet (4.8 meters) Gyro error is 2°W Variation is 14°W

"Per standard magnetic compass" is abbreviated "psc"

## **DEVIATION TABLE**

Magnetic	
<u>Heading</u>	<b>Deviation</b>
000°	0°
030°	1°W
060°	2°W
090°	4°W
120°	2°W
150°	1°W
180°	1°E
210°	2°E
240°	3°E
270°	3°E
300°	2°E
330°	1°E

You are on course 092°T and the engines are turning for 8 knots. At 0452, you take the following bearings:

Stratford Point Light 020°pgc Stratford Shoal (Middle Ground) Light 141°pgc

What is your 0452 position?

- o (A) LAT 41°05.0'N, LONG 73°07.5'W
- o (B) LAT 41°05.0'N, LONG 73°07.3'W
- (C) LAT 41°05.2'N, LONG 73°07.8'W
- o (D) LAT 41°04.8'N, LONG 73°07.3'W

If choice C is selected set score to 1.

<sup>&</sup>quot;Per gyrocompass" is abbreviated "pgc"

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2.	If the visibility is 10 miles, what is the earliest time you can expect to see New Haven Light?
	<ul> <li>(A) 0508</li> <li>(B) 0514</li> <li>(C) 0500</li> <li>(D) You will not sight the light.</li> </ul>
	If choice D is selected set score to 1.
3.	At 0507, Stratford Shoal Middle Ground Light bears 208°pgc. What is the position of your 0507 running fix?
	<ul> <li>(A) LAT 41°05.1'N, LONG 73°05.1'W</li> <li>(B) LAT 41°04.6'N, LONG 73°04.7'W</li> <li>(C) LAT 41°04.8'N, LONG 73°04.9'W</li> <li>(D) LAT 41°04.8'N, LONG 73°04.8'W</li> </ul>
	If choice A is selected set score to 1.
4.	Based on your running fix, you
	<ul> <li>(A) have a head current</li> <li>(B) are not affected by a current</li> <li>(C) are being set to the north</li> <li>(D) have a following current</li> </ul>
	If choice D is selected set score to 1.
5.	Your 0507 position is about 7 miles from Bridgeport, CT. What is the distance from this position to Newport, RI?
	<ul> <li>(A) 88 miles</li> <li>(B) 114 miles</li> <li>(C) 95 miles</li> <li>(D) 101 miles</li> </ul>
	If choice A is selected set score to 1.
6.	Your 0530 position is LAT 41°04.9'N, LONG 73°01.1'W. What is the course per standard magnetic compass to a position 1.0 mile south of Twenty Eight Foot Shoal "TE" buoy?
	<ul> <li>(A) 082.0°psc</li> <li>(B) 092.5°psc</li> <li>(C) 096.0°psc</li> <li>(D) 099.5°psc</li> </ul>
	If choice D is selected set score to 1.

Illu	strations: 0
7.	The south shore of Long Island Sound near your position is
	<ul> <li>(A) low and marshy</li> <li>(B) high with numerous cliffs</li> <li>(C) fringed with rock shoals</li> <li>(D) backed by marshes and wooded uplands</li> </ul>
	If choice C is selected set score to 1.
8.	At 0530, you change course to 090°T and increase speed to 8.5 knots. What is the course to steer per gyrocompass if northerly winds are causing 2° of leeway?
	<ul> <li>(A) 094°pgc</li> <li>(B) 088°pgc</li> <li>(C) 092°pgc</li> <li>(D) 090°pgc</li> </ul>
	If choice D is selected set score to 1.
9.	At 0615, Stratford Point Light bears 292°pgc, Falkner Island Light bears 052°pgc, and Branford Reef Light bears 018°pgc. What was the current since 0530?
	<ul> <li>(A) 263° at 0.9 knots</li> <li>(B) 083° at 0.9 knots</li> <li>(C) 263° at 1.2 knots</li> <li>(D) 083° at 1.2 knots</li> </ul>
	If choice D is selected set score to 1.
10	. What is the approximate depth of the water under the keel at 0615?
	<ul> <li>(A) 106 feet (32.3 meters)</li> <li>(B) 85 feet (25.9 meters)</li> <li>(C) 95 feet (29 meters)</li> <li>(D) 89 feet (27.1 meters)</li> </ul>
	If choice B is selected set score to 1.
11	At 0615 you change course to 078°T. If there is no current, when will Falkner Island Light be abeam?
	<ul> <li>(A) 0730</li> <li>(B) 0750</li> <li>(C) 0735</li> <li>(D) 0743</li> </ul>
	If choice A is selected set score to 1.

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12.	At 0700, Falkner Island Light bears 023°pgc, and the range to the south tip of Falkner Island is 7.7
	miles. What was the course made good since 0615?

- o (A) 087°T
- o (B) 084°T
- (C) 081°T
- o (D) 078°T

If choice C is selected set score to 1.

**13.** At 0705, the gyro loses power. At 0730, you are on course 092° per standard magnetic compass (psc) when you take the following bearings:

Falkner Island Light bears 356°psc Horton Point Light bears 123°psc

Kelsey Point Breakwater Light bears 048°psc

What is the position of your 0730 fix?

- o (A) LAT 41°06.7'N, LONG 72°36.0'W
- o (B) LAT 41°07.2'N, LONG 72°36.4'W
- (C) LAT 41°07.0'N, LONG 72°36.2'W
- o (D) LAT 41°07.4'N, LONG 72°36.4'W

If choice C is selected set score to 1.

- **14.** Horton Point Light \_\_\_\_\_.
  - o (A) has a fixed green light
  - (B) is shown from a white square tower
  - o (C) is 14 feet above sea level
  - o (D) is synchronized with a radio beacon

If choice B is selected set score to 1.

15. If visibility permits, Little Gull Island Light will break the horizon at a range of approximately

- o (A) 18.0 miles
- (B) 15.6 miles
- o (C) 11.1 miles
- o (D) 12.8 miles

If choice B is selected set score to 1.