

U.S.C.G. Merchant Marine Exam  
Second/Third Mate of Unlimited Tonnage  
Q115 Chart 13205TR  
(Sample Examination)

Choose the best answer to the following Multiple Choice Questions.

1. The following questions should be answered using Chart 13205TR, Block Island Sound - Eastern Part, and the supporting publications. Information provided in the stem of a test item supersedes any other reference information.

Your vessel has a draft of 18 feet (5.5 meters)  
Your height of eye is 32 feet (9.8 meters)  
Gyro error is 1°W  
Variation is 15°W

"Per standard magnetic compass" is abbreviated "psc"  
"Per gyrocompass" is abbreviated "pgc"  
"Nautical miles" is abbreviated "nm"

***DEVIATION TABLE***

<b>Magnetic Heading</b>	<b>Deviation</b>
000°	2.0°E
030°	3.0°E
060°	4.0°E
090°	2.0°E
120°	1.0°E
150°	1.0°W
180°	2.0°W
210°	3.5°W
240°	3.0°W
270°	3.5°W
300°	0.0°
330°	1.5°E

At 0610, you take the following observations:

Point Judith Light - 008°pgc  
Point Judith Harbor of Refuge Main Breakwater Center Light – 299°pgc  
Point Judith Harbor of Refuge East Entrance Light "3" ranged at 1.1nm

What is your 0610 position?

- (A) LAT 41°20.8'N, LONG 71°29.2'W
- (B) LAT 41°20.6'N, LONG 71°29.3'W
- (C) LAT 41°20.7'N, LONG 71°29.0'W
- (D) LAT 41°20.5'N, LONG 71°28.8'W

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

**2.** Which of the following best describes Point Judith Harbor of Refuge?

- (A) The East Gap has greater horizontal clearance than the West Gap
- (B) The West Gap would be preferable to use for a vessel of your draft rather than the East Gap
- (C) There is soft bottom in the northern part of the harbor
- (D) There is more than one shoal within the harbor to be aware of

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

**3.** At 0610, you are on a course of 240°pgc at 15 knots. What is your compass error?

- (A) 19°W
- (B) 12°W
- (C) 18°W
- (D) 17°W

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

**4.** Which of the following best describes the seabed in the vicinity of 1nm due West (270°T) of your 0610 position?

- (A) Hard sand
- (B) Rocky
- (C) Hard
- (D) Boulders

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

**5.** Your meteorological visibility is 6.5nm. On your 240°pgc course line, when will you lose sight of Point Judith Light (20M) at a speed of 14.5 knots?

- (A) 0723
- (B) 0654
- (C) 0716
- (D) 0705

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

**6.** At 0615, Point Judith Harbor of Refuge Main Breakwater Center Light is ranged at 1.2nm and Point Judith (LONG 71°28.9'W) is ranged at 1.9nm. Which is TRUE?

- (A) You have just crossed over a submarine cable
- (B) You are in a cable area
- (C) You are subject to Inland Navigation Rules
- (D) You are outside the 10 fathom curve

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

7. At 0650, Block Island North Light is bearing  $139^{\circ}$ pgc and Block Island Sandy Point is ranged at 4.5nm. What is your 0650 position?

- (A) LAT  $41^{\circ}17.2'N$  LONG  $71^{\circ}38.7'W$
- (B) LAT  $41^{\circ}16.9'N$  LONG  $71^{\circ}38.8'W$
- (C) LAT  $41^{\circ}17.3'N$  LONG  $71^{\circ}38.5'W$
- (D) LAT  $41^{\circ}17.5'N$  LONG  $71^{\circ}38.6'W$

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

8. What was the current between 0615 and 0650 if you were steering  $240^{\circ}$ pgc and your speed through the water was 14.5 knots?

- (A)  $035^{\circ}T$  at 3.0 knots
- (B)  $035^{\circ}T$  at 2.0 knots
- (C)  $075^{\circ}T$  at 3.0 knots
- (D)  $075^{\circ}T$  at 2.0 knots

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

9. At 0655, Weekapaug Point is bearing  $306^{\circ}$ pgc at 4.8nm and you change course to steer  $256^{\circ}$ pgc. A northerly wind freshens up, creating  $5^{\circ}$  of leeway. If you maintain your heading, what will the Watch Hill Lighted Whistle Buoy "WH" be bearing when abeam to starboard, disregarding the current?

- (A)  $341^{\circ}$ pgc
- (B)  $351^{\circ}$ pgc
- (C)  $346^{\circ}$ pgc
- (D)  $331^{\circ}$ pgc

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

10. When the "WH" buoy is abeam, what is your distance off the buoy if your course steered and leeway haven't changed?

- (A) 1.5nm
- (B) 2.0nm
- (C) 1.7nm
- (D) 2.3nm

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

11. At 0740, Watch Hill Radiobeacon (LAT  $41^{\circ}18.3'N$  LONG  $71^{\circ}51.5'W$ ) is due North ( $000^{\circ}T$ ) at 4.7nm. Which is TRUE?

- (A) You are on the 150 fathom curve
- (B) The closest point of Fishers Island is ranged at 4.8nm
- (C) Montauk Point Light and Montauk Point Radiobeacon are on the same bearing from your vessel as per charted information
- (D) Stonington Breakwater Light "5" and Stonington Outer Breakwater Light "4" are sighted directly in line bearing  $336^{\circ}$ pgc

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

**12.** At 0745, Latimer Reef Light is bearing  $343^{\circ}$ pgc and Race Point is ranged at 6.9nm. What is your 0745 position?

- (A) LAT  $41^{\circ}13.1'N$  LONG  $71^{\circ}53.6'W$
- (B) LAT  $41^{\circ}12.6'N$  LONG  $71^{\circ}53.8'W$
- (C) LAT  $41^{\circ}12.8'N$  LONG  $71^{\circ}53.7'W$
- (D) LAT  $41^{\circ}12.7'N$  LONG  $71^{\circ}53.9'W$

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

**13.** At 0745, you change course to head for The Race. You will leave Race Rock Light bearing due North ( $000^{\circ}T$ ) at 0.5nm. If the current has changed to  $115^{\circ}T$  at 3.5 knots and your speed through the water is 15 knots, what course (pgc) should you steer?

- (A)  $290^{\circ}$
- (B)  $280^{\circ}$
- (C)  $285^{\circ}$
- (D)  $295^{\circ}$

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

**14.** You are bound for New London. With Race Rock Light bearing due North ( $000^{\circ}T$ ) at 0.5nm, which of the following is correct?

- (A) Race Rock is the southwest extremity of Fishers Island
- (B) You are governed by both Inland Navigation Rules and COLREGS
- (C) You are governed by COLREGS
- (D) You are in the red sector of South Dumpling Light

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

**15.** To check your compasses, you sight North Dumpling Light directly in line with Latimer Reef Light bearing  $075^{\circ}$ pgc. The helmsman was steering  $302^{\circ}$ pgc and  $317^{\circ}$ psc at that time. Which of the following is TRUE?

- (A) Your deviation is  $3^{\circ}E$
- (B) Your compass error is  $16^{\circ}W$
- (C) The gyro error is easterly
- (D) The gyro is unchanged at  $1^{\circ}W$

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