

Safe Waters 100 Ton Master Independent Study Week 4

Assignment:

- Read sections on emergency procedures and communications
- Complete the following questions using chart# 12354tr

Use Chart #12354 TR and supporting publications.

Deviation Table

Hdg. Mag.	Deviation	Hdg.Mag.	Deviation	Hdg. Mag.	Deviation
000°	2E	120°	1E	240°	3W
030°	3E	150°	1W	270°	1.5W
060°	4E	180°	2W	300°	0
090°	2E	210°	3.5W	330°	1.5E

Variation is 14°W for all problems

1. The chart symbol surrounding Saybrook Breakwater Light means _____
 - a. no longer maintained
 - b. protected by riprap
 - c. privately maintained
 - d. awash at high tide
2. Which charts would you use for a more detailed information on the Connecticut River?
 - a. 12354
 - b. 12375
 - c. 12354 & 12375
 - d. 12375 & 12377
3. The broken magenta line from Roanoke Point to Orient Point indicates _____
 - a. ColRegs demarcation line
 - b. submerged cable area
 - c. fish trap area
 - d. international date line
4. The Danger Area at Gardiners Point (north of Gardiners Island) should be avoided because _____
 - a. it contains live explosives
 - b. it is rocky
 - c. it is shallow and generates breakers
 - d. it is a practice torpedo area

5. At 1520, your GPS indicates a position of $41^{\circ}13.1'N$ & $072^{\circ}16.1'W$. At 1630 another fix places your vessel at $41^{\circ}17.5'N$ & $072^{\circ}04.7'W$. What was our true course and speed made good?

- a. 344° at 8.2 knots
- b. 077° at 9.5 knots
- c. 063° at 8.3 knots
- d. 056° at 8.1 knots

6. Your 2215 position is $41^{\circ}05.4'N$ & $072^{\circ}59.4'W$. You are making turns for 15 knots. What is your ETA at Twenty-Eight Foot Shoal Lighted Bell Buoy "TE" (approx $41^{\circ}09.3'N$ & $072^{\circ}30.5'W$)

- a. 2338
- b. 2343
- c. 2349
- d. 2354

7. You are on course 087° psc when you take the following bearings:

Falkner Island Light	022.0° psc
Horton Point Light	111.5° psc
Mt. Siani Breakwater Light	254.0° psc

What is your position?

- a. $41^{\circ}13.6'N$ $072^{\circ}46.6'W$
- b. $41^{\circ}10.5'N$ $072^{\circ}40.5'W$
- c. $41^{\circ}07.0'N$ $072^{\circ}44.5'W$
- d. $41^{\circ}06.8'N$ $072^{\circ}40.7'W$

8. At 1620 your position is $41^{\circ}09.0'N$ & $072^{\circ}40.0'W$. You are on course 134° PSC at a speed of 10 knots. AT 1700 your position is $41^{\circ}05.3'N$ & $072^{\circ}33.7'W$. What was the set and drift?

- a. $067^{\circ}T$ at 1.6 knots
- b. $078^{\circ}T$ at 1.1 knots
- c. $245^{\circ}T$ at 1.0 knots
- d. $252^{\circ}T$ at 1.5 knots

9. What is the true course to steer from a position 2 miles south of Branford Reef Light to Horton Point Lit if set and drift are $247^{\circ}T$ at 3 knots. Engines are making turns for 10 knots.

- a. $101^{\circ}T$
- b. $078^{\circ}T$
- c. $095^{\circ}T$
- d. $087^{\circ}T$

10. If your engines are making turns for 8 knots, what is the true course to steer between Branford Reef Light and Falkner Island Light if the current is 220°T at 1.5 knots?
- a. 087°T
 - b. 095°T
 - c. 102°T
 - d. 267°T