

## NAVIGATION EXERCISE # 2

Practice finding positions and courses on a Chart.

Notes and guidelines: Chartlet based on Small Boat Chart 18445 Page A, other charts of the same area may also be used, if so your answers may be slightly different. The Chartlet covers West Point to Possession Pt. Print Chartlet 11x19 in. Chart Variation  $17^{\circ} 30''$ E. All sightings and courses are assumed to have 0 Deviation. Adding or subtracting  $180^{\circ}$  from a heading allows the opposite side of the Compass Rose to be used, this is also called finding the reciprocal.

A) You take a bearing of  $174^{\circ}$  M to a Yellow "SF" Buoy and  $040^{\circ}$  M to a light on the south end of a Breakwater off Edwards Pt..

Where Are You: \_\_\_\_\_N \_\_\_\_\_W

How Far to Shilshole: \_\_\_\_\_

How far to the light on the Breakwater off Edwards Pt.: \_\_\_\_\_

What would be a quick way to describe your position to the Coast Guard:

1) \_\_\_\_\_

2) \_\_\_\_\_

B) The Skipper ask you to give him a course to steer from the Meadow Pt. Buoy to Port Madison. You decide to pass about 600 yards due North of Pt. Monroe.

1) What is the magnetic course: \_\_\_\_\_

2) What is the approximate distance: \_\_\_\_\_

3) At 6.5 kts how long until you are North of Pt. Monroe: \_\_\_\_\_

4) What do you think of this course: \_\_\_\_\_

C) You are at the helm, the boat is outside the Shilshole Marina heading toward the Ballard Locks. As the vessel passes a RW Buoy close to Port. The Skipper consults his chart and tells you to Steer  $147^{\circ}$  M.

What do you think: \_\_\_\_\_

What happened: \_\_\_\_\_

D) Your course is due North Magnetic. You pass a Yellow Buoy "SF" about 1000 yd. abeam to Starboard. Someone yells "Lets stop for lunch". You are very hungry.

What do you think: \_\_\_\_\_

What happened: \_\_\_\_\_

E) You are up towards Edmonds - one of your crew is trying out your new hand bearing compass. They take the following readings:  $344^{\circ}$  M to a Green Buoy south of Possession Pt and  $164^{\circ}$  M to the north light on the entrance to the Edmonds Marina.

Where are you: \_\_\_\_\_N \_\_\_\_\_W

What happened: \_\_\_\_\_

F) Your crew takes the following bearing:  $318^{\circ}$ M to a Yellow Buoy they think is "SE" and  $204^{\circ}$ M to a Green Buoy you think is off Meadow Point.

Where are you: \_\_\_\_\_

What happened: \_\_\_\_\_