Convoy Attack Team Planning Guide

**Step 1:** Locating your own convoy. Your convoy is located in the center of the innermost circle on your Maneuvering Board. Please place a star on the location of your own convoy.

**Step 2:** Based on the provided Plotting Map, you must first determine the size of the region in which you are traveling (the area represented by the concentric circles.) If Iwo Jima is the center of the Maneuvering Board and the city of Davao, Philippines is at the outermost concentric circle of the Maneuvering Board, the radius line, showing the distance between the two points are 1,400 Nautical Miles or 2,575 kilometers.

Using the following formulas, answer the following questions for both nautical miles and kilometers.

1. What is the diameter of the Maneuvering Board (radius x 2)?

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<thead>
<tr>
<th>Nautical Miles</th>
<th>Kilometers</th>
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### Convoy Attack Team Planning Guide cont.

2. What is the circumference of the Maneuvering Board \((\pi \times \text{diameter})\)?

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<thead>
<tr>
<th>Nautical Miles</th>
<th>Kilometers</th>
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When dealing with military operations, timing and location are of the utmost importance. Knowing the full area in which you are traveling (and more importantly, where the enemy is traveling) and your RADAR capabilities can be the difference between a sound victory or a bitter defeat.

3. What is the area of the Maneuvering Board \((\pi \times \text{radius}^2)\)?

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**Step 3:** Your convoy is traveling in a Northwest direction toward the enemy. We will begin by calculating your convoy's speed in knots. The knot is a unit of speed equal to one nautical mile (1.852 km). Your convoy is able to travel at a speed of 28 kph. Calculate the speed in knots \((\text{kph/nm})\) that your convoy is traveling.

**Your Convoy's Speed in Knots:**
Convoy Attack Team Planning Guide cont.

**Step 4:** The enemy convoy is traveling at a speed of 20 knots. How many kph (knots x 1 NM) is the enemy convoy traveling?

The Enemy Convoy’s Speed in kph: ________________________________

**Step 5:** Plot the following enemy convoys your Plot/Map:

1. northwest 320 degrees, 1,200 kilometers from your convoy
2. southeast 150 degrees, 2,000 kilometers from your convoy
3. southwest 245 degrees, 3,200 kilometers from your convoy
4. northeast 20 degrees, 500 kilometers from your convoy
5. southeast 225 degrees, 3,200 kilometers from your convoy
Convoy Attack Team Planning Guide cont.

**Step 6:** If target 4 (from **Step 5** above) is traveling at 20 knots, how long will it take to intercept our convoy (presuming we are stationary at Iwo Jima). The following metrics have been provided to assist with the following question.

Distance = Speed x Time
Time = Distance/Speed
Speed = Distance/Time

Time it Will Take to Intercept our Convoy: ____________________________

**Step 7:** In your team, plot your course of attack based on one of the enemy convoys location as seen in **Step 5**. You must decide how many vessels in your convoy will attack, how fast you will travel, and what path(s) you will take to get there. Please plot out your plan of attack on the map provided. Please write out a justification for your decisions in the space provided.

Justification for Plan of Attack:

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