

Almost without knowing, we use **MATH** in so many ways in our daily lives. We use it to **FIGURE** out if we have enough money to pay for things at the store or to **DECIDE** what time we have to leave home to get to soccer practice on time. Onboard Bodacious IV, we use math to keep **TRACK** of where we are, where we're headed, and when we'll get there. And, we use it to **CALCULATE** if we have enough food, cookies, and water onboard. All these things are important to help us travel safely from one harbor to another.

**The Bodacious IV crew needs your help to navigate from one place to another. Come onboard!**



The sail boat Bodacious IV will travel thru the water at 7 miles per hour. We want to travel non-stop to Turtle Bay, which is 400 miles north of where we'll begin. Here are the questions we have to ask before we leave. Can you help us find the answers?

How many **HOURS** will it take us to get to Turtle Bay?

\_\_\_\_\_ ÷ \_\_\_\_\_ = \_\_\_\_\_ hours

How many **DAYS** will that be?

\_\_\_\_\_ ÷ \_\_\_\_\_ = \_\_\_\_\_ days

If we leave at **7:00** in the morning on **Monday**, when will we arrive at Turtle Bay?

What **DAY** will we arrive? \_\_\_\_\_

What **TIME** will we arrive? \_\_\_\_\_ a.m. or p.m.?



We plan to leave Cabo San Lucas on March 29th. The trip to San Diego is 800 miles. Remember we are sailing at 7 miles per hour. When will we get to San Diego?

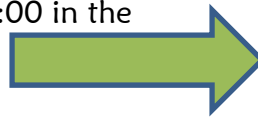
What **DAY** will we arrive? \_\_\_\_\_

What **TIME** will we arrive? \_\_\_\_\_ a.m. or p.m.?

The crew will work in 4 hour shifts we call “watches.” How many **WATCHES** are there in a **DAY**?

\_\_\_\_\_ ÷ \_\_\_\_\_ = \_\_\_\_\_ watches

If watches start when we leave Cabo San Lucas at 7:00 in the morning, tell us what **TIME** each watch will begin.



Watch	Start Time
1	7:00 a.m.



We know Dave likes Chocolate Chip cookies because he’s allergic to peanuts. Dave only eats 2 cookies a day so he won’t gain weight. If the trip takes 5 days, how many **COOKIES** will Dave need to have onboard for the trip?

Dave says there are 28 cookies in a package. If he eats his daily ration, how many cookies will he have left to share with the crew?

\_\_\_\_\_

If there are four other crew members, how many cookies would each crew member get? \_\_\_\_\_

We will be looking for **WHALES** on this trip.

Day	Whales Seen
1	
2	
3	
4	
5	
TOTAL	

If we see 1 whale on the first day, no whales on the second day, 4 whales on the third day and 2 more whales before we reach San Diego, how many whales will we have seen in total?



**BONUS**

A **KNOT** is a nautical mile figured out to 6000 feet to work with the latitude and longitude system of navigation. A **STATUTE MILE** is 5280 feet and is used to measure distance on land.

How many miles per hour is 7 knots of boat speed?