*You have 60 minutes to answer the following 30 questions. Figures are not drawn to scale. Select E) NOTA if None of the Above Answers is correct.*

**Marvin and his son Nemo live on the Great Barrier Reef. Their house is a rectangular anemone that sits on a spot like the one illustrated below. (Use this illustration for questions 1-2)**

3 ft.

5 ft.

1. What is the perimeter, in feet, of the spot that their anemone sits on?

**A) 8 B) 15 C) 16 D) 20 E) NOTA**

1. What is the area, in square feet, of the spot that their anemone sits on?

**A) 9 B) 15 C) 16 D) 25 E) NOTA**

1. Which of the following numbers is divisible by both three and four?

**A) 1868 B) 1872 C) 1875 D) 1878 E) NOTA**

1. Nemo’s right fin (his “lucky” fin) is one-third the length of his left fin. If his left fin is 7 cm long, how long is his lucky fin in cm?
2. ** B) 3 C)  D) 21 E) NOTA**
3. To be able to attend school, Nemo has to be able to order these numbers from largest to smallest: 2.7, 0, , -2.7, .

**A) -2.7, 0, , 2.7, B) , , 2.7, 0, -2.7 C) , 2.7, , 0, -2.7**

**D) -2.7, 0, 2.7, ,  E) NOTA**

1. It is Nemo’s first day of school! The school is 200 feet away from his house. If Nemo can swim 25 feet in one minute, how many minutes will it take Nemo to get to school?

**A) 2 B) 4 C) 6 D) 8 E) NOTA**

1. There are 96 students (including Nemo) at the school. If there are eight teachers at the school and their classes are of equal size, how many kids will be in Nemo’s class?

**A) 10 B) 11 C) 12 D) 16 E) NOTA**

1. Nemo is assigned to Mr. Ray’s class. He meets four new friends, Sheldon, Tad, Pearl, and Kathy. The five of them line up together to go on a fieldtrip. What place is Sheldon in line if:

I. Pearl wants to be right in front of Kathy

II. Tad has to be the line leader

III. Nemo needs to be besides Pearl

IV. Nemo isn’t directly behind the line leader.

**A) 2nd B) 3rd C) 4th D) 5th E) NOTA**

1. Mr. Ray is thinking of the sixth three digit prime number (101 is the first). What number is Mr. Ray thinking of?

**A) 113 B) 117 C) 127 D) 131 E) NOTA**

1. Nemo wants to touch the “butt” (what Nemo calls the boat), no matter what his dad tells him. The boat is 75 feet away from him. It takes him a specific number of tries to get to the boat. On each try, he swims forward 18 feet but is then pushed back 3 feet because of the current. How many tries does it take before Nemo reaches the boat?

**A) 4 B) 5 C) 6 D) 25 E) NOTA**

1. Marvin discovers a diver’s mask with an address on it. A school of fish will give him directions if you can determine how many of the following statements are true.

I. 43, 53, and 63 are prime numbers

II. An octagon has 8 sides

III. One-third of 27 is 9

IV. 42 inches is equal to 3.5 feet

**A) 1 B) 2 C) 3 D) 4 E) NOTA**

1. When they get the directions from the fish, Dory and Marvin head towards Sydney. On the way they encounter a group of jellyfish. The jellyfish won’t harm them if they can figure out a number.

I. The number has four digits

II. The fourth digit is 4

III. The first digit is twice the fourth digit and smaller than the second digit

IV. The sum of the two middle digits is 11.

What is the number?

**A) 2744 B) 2834 C) 8744 D) 8924 E) NOTA**

1. While riding on the East Australian Current (EAC), Marvin and Dory met

 turtles. Exactly how many turtles did they meet?

**A) 12 B) 13 C) 18 D) 24 E) NOTA**

1. Marvin and Dory are very hungry, so they find a bundle of seaweed to eat. There are 36 leaves in the bundle. Marvin eats two-fourths of the bundle and Dory eats one-third of the bundle. How many leaves of seaweed remain after they eat?

**A) 6 B) 12 C) 18 D) 30 E) NOTA**

1. Which of the following numbers is prime?

**A) 201 B) 213 C) 229 D) 247 E) NOTA**

1. Meanwhile, Nemo has been taken to a tank in a dentist’s office. The tank is 2 ft tall, 1.5 ft wide, and 3 ft long. What is the volume of the tank in cubic feet?

**A) 5 B) 6.5 C) 9 D) 12 E) NOTA**

1. When Nemo goes into the tank, he notices that the water is cooler than the ocean. The water happens to be 17 degrees cooler than the ocean water. If the ocean was 85 degrees, what is the temperature of the water in the tank?

**A) 68° B) 75° C) 78° D) 102° E) NOTA**

1. At the bottom of the tank, there are four colors of rocks (orange, blue, green, and white). If 13% of the rocks are green, 36% are orange, and 27% are blue, what percent of the rocks are white?

**A) 21% B) 24% C) 27% D) 76% E) NOTA**

1. Jacques, the sanitary shrimp, wants to clean a particularly dirty spot on the tank. The spot is a square with a side length of 4 inches. If it takes Jacques 30 seconds to clean one square inch of the tank, how many minutes will it take him to clean the square?

**A) 2 B) 4 C) 8 D) 16 E) NOTA**

1. Mount Wannahockaloogie has a circular base, with a circumference of 6 inches. What is the area of the base of Mount Wannahockaloogie?

**A) 3π B) 6π C) 9π D) 12π E) NOTA**

1. When opened, a treasure chest in the tank releases 10 bubbles in 3 seconds. How many bubbles will be released in minute?

**A) 30 B) 100 C) 200 D) 300 E) NOTA**

1. Nemo manages to jam the tanks filter, so that after one hour there is two square inches of scum. After the second hour, there is four square inches of scum. After the third hour, there are eight square inches of scum. If the pattern continues, how many square inches of scum will be in the tank after eight hours?

**A) 512 B) 256 C) 128 D) 64 E) NOTA**

1. There is a number of annoying pelicans standing on a rock. The rock is triangular, with a base of 9 feet and height of 6 feet. If 3 pelicans can stand on one square foot of rock, how many pelicans are standing on the rock?

**A) 162 B) 81 C) 54 D) 27 E) NOTA**

1. The average of 8 numbers is 9. A number is added and the average becomes 10. What number is added?

**A) 10 B) 14 C) 16 D) 18 E) NOTA**

1. Nigel the brown pelican can normally fly 30 feet per second. However, when carrying Dory and Marvin, he can only fly 22 feet per second. It takes Nigel 130 seconds to carry Marvin and Dory from the shore to the dentist’s office. How many feet is it from the shore to the dentist’s office?

**A) 660 B) 1040 C) 2860 D) 3900 E) NOTA**

1. The dentist has a drain in his office with a radius of 2.5 cm. What is the circumference of the drain in centimeters?

**A) 2.5 B) 5 C) 2.5π D) 5π E) NOTA**

1. Gill is successful in pushing Nemo down the circular drain that leads to the ocean. To get to the ocean, Nemo has to travel yards to the north, 3 yards to the east, another yards to the north, and 7 yards to the west. How many feet does Nemo travel inside the drain?

**A) 20 B) 30 C) 60 D) 90 E) NOTA**

1. The fishing net that Dory gets caught in is full of three different types of grouper (black, white, and yellowtail). There are 80 black grouper. The number of white grouper is equal to the first prime number greater than fifty. There are three-fourths as many yellowtail grouper as black grouper. What is the total number of grouper in the fishing net?

**A) 253 B) 251 C) 193 D) 191 E) NOTA**

1. Nemo, Marvin, Dory, and two groupers are happy that everyone has been saved, so they all shake “hands” once. How many different handshakes take place?

**A) 20 B) 10 C) 7 D) 5 E) NOTA**

1. Nemo, Marvin and Dory are swimming home. They will return on the fourth Monday of the month. If today is the second of the month, and it is Tuesday, on what date will Nemo and Marvin be home?

**A) 22nd B) 20th C) 15th D) 8th E) NOTA**