The vaccinated turtles are safe from the disease but their existence is still threatened by other factors. Let's see what these factors are.

The following dot plot gives the number of turtles left based on their size. Observe the dot plot and complete the provided table.


The turtles are dependent on the forests. The provided graph shows the reduction in number of trees in the forest over a span of time (in years). Find the unit rate of reduction in the number of trees. Write your answer in the boxes given below.


$$
\text { Unit rate }=\frac{y_{2}-y_{1}}{x_{2}-x_{1}}
$$



The provided graph represents the number of turtles captured in a particular area (in acres). Write the unit rate for capture of forest turtles and musk turtles.


Check the difference in the unit rates for forest turtles and musk turtles (in turtles/acre).


The function relating the total number of turtles ( t ) captured to the number of aquatic turtles (a) captured among them is given as $a=0.83$ t. If the total number of turtles captured are 400 , circle the number of aquatic turtles.

Hint: Plug in 400 into the function and see what number you get.

You find that human activities like hunting, pollution, and deforestation are seriously impacting turtle populations. Let's analyze the data for different types of turtles affected and try to save them.

The dot plot shows different types of endangered turtles that are hunted by humans. If each dot represents 4 turtles, check the box for the type of turtle that is hunted the most and answer the following question.


The provided graph represents data showing the number of turtles being affected by land pollution. Calculate the number of turtles affected per unit land area. Write your answer in the boxes given below.


The provided graph shows the number of turtles that have migrated due to deforestation over a span of time (in months). Check the correct unit rate (in turtles migrated/month).


Medicines are required to protect the turtles from diseases. A box of medicine contains 7 more syringes (s) than the doses of medicine ( $m$ ). Use the relation to complete the following table.

Hint: Use $s=m+7$ to fill in the table.

| Doses of medicine (m) | Number of syringes (s) |
| :---: | :---: |
| 2 |  |
|  |  |
| 7 |  |
|  |  |

Let's conduct physical tests to analyze and monitor the health of different types of turtles. The turtle traveling the most distance in the least amount of time will be considered the healthiest.

Fill in the table based on the following guidelines:
Turtle 1: Between 2 to 8 mi .
Turtle 2: Between 5 to 9 mi .

- Both the turtles start at same time and the starting time is ' 0 '.
- The time taken can be a natural number less than 5 . It will be the same number for both turtles.

| Turtles | Initial distance (in mi) | Time 'T’ (in h) | Distance traveled (in mi) |
| :---: | :---: | :---: | :---: |
| Turtle 1 | 0 | $\square$ |  |
| Turtle 2 | 0 |  |  |

Using the table, plot a graph in the given space between the distance covered by the two types of turtles with respect to time (in h).

Draw here


From the graph, calculate the unit rate (in mi/h) for each type of turtle and compare them.

Speed of the Turtle 1


Using the data, choose the turtle that will be considered the healthiest among the two. The turtle traveling the most distance in the least amount of time will be considered the healthiest! Check the correct box.


Great! Your efforts have helped save endangered turtles from threats.

