

CAPTAIN



POLIGON

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As Captain Poligon and his crew gazed upon the open seas, they thought to themselves that it was time for adventure. Often lazy, the group of pirates wanted the easiest way to treasure. However, today, some extra work was required.



Captain Poli, his friendly nickname, uses his trusty sidekick parrot, known as Poli Jr., to steal the enemy's treasure maps when they occasionally land on shore.



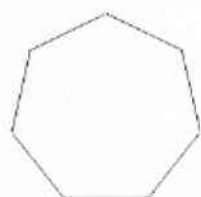
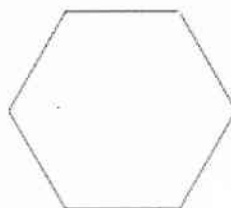
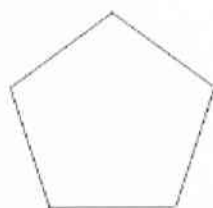
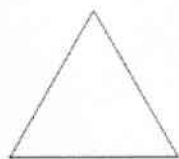
Poli Jr. has created a major hassle this time. By stealing a map created by some unknown mathematician rumored to be called Newton, whoever that is. This treasure map has been converted into differing shapes and given lengths.

Hardly anyone on board could make it out except one rather young pirate. Pavlov, is what the crew called him, made the map out pretty well, but elements were tough to crack.



So they thought...

Clues on the back included countless things such as...



Find the island with the least amount of perimeter.

Since Pavlov knew the distance around the outside of an object was the perimeter, fellow pirates did some calculations.

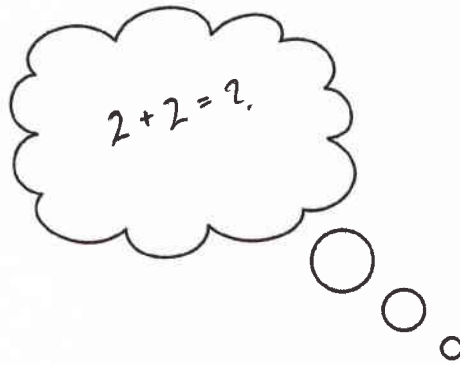
The job was made easier when another clue hinted all were regular polygons, meaning each side of individual figures were congruent, or the same.

The triangle's measure for one side was 5 miles, multiplied by 3 sides for the total length came to 15 miles.

The quadrilateral's measure for one side was 3 miles, multiplied by 4 sides for the total length came to be 12 miles.

The pentagon's measure for one side was 3 miles, multiplied by 5 sides came to the total length of 15 miles.

The final island was a hexagon, whose measure for a side was 7 miles, multiplied by 6 sides for the total length 42 miles.



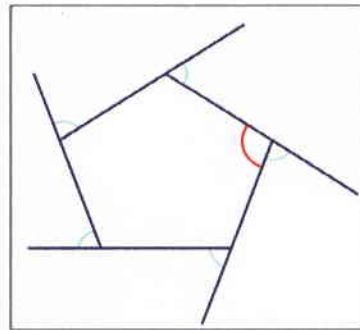
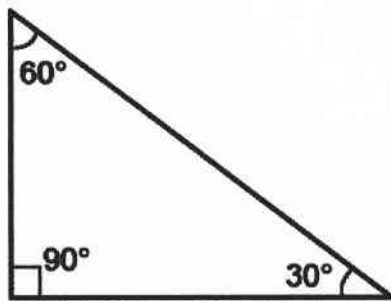
So, two of the islands shared the same perimeter,

but two were out of the way.

So they read on to the next clue...

Captain Poligon announced,

"Sum the interior angles, which are inside the object at each vertex, for each individual shape remaining. The shape with the sum under 180 degrees is the island for you!"



Exalted they are nearly at an answer the crew rose and cheered!

Being the know-it-all he is, Pavlov exclaims each shape has a sum of interior angles at an equal or greater than 180, so the party was postponed for another time.

Once again, the crew was forced to keep going.

*The next clue stated the island with the highest number of diagonals is the island in which you desire. Pavlov described a **diagonal** to his crew in a way they might understand. If you're cornered by British guards, and you may not run to a post lying consecutively with you, only allowing you to sprint to an opposite, non-touching escape door. They still seemed dazed but began to solve the problem at hand.*



Members of the crew drew out the diagonals for each shape, discovering the triangle had a disappointing zero diagonals while the pentagon came on strong with 5 total.



HORRAY!!

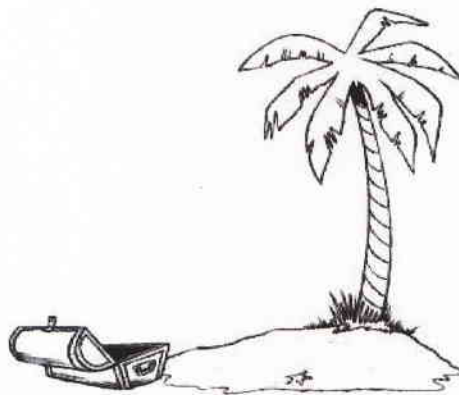
THEY HAD CRACKED THE CODE

So off they sailed to Pentagon Island in search of wealth.

Captain Poligon led his crew onto shore...



*But what they found was not at sand and surf happiness.
Hoping to find gold and riches, Newton had other plans...*



*The treasure chest was full of math books, pencils, **protractors** (instruments used to measure angles and scales), and the works of the most famous math teacher and math students to live among the Seven Seas, Mrs. Powell's and Room #39.*



ARG! **Yo, No! No!**

The pirates sailed away in anger in search of payback, beginning the hunt for Newton.

However one pirate had a new mood, recalling the day.

Pavlov exclaimed, "Well, mate's we had an amazing day of learning the art of geometry, while discovering the priceless works of Mrs. Powell's. This day of inspiration and new life will be remembered FOREV..."



And before Pavlov could finish, he was thrown off deck and never seen again.

Picture Sources

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