



1) Complete the missing parts of these converted and partitioned lengths from a treasure map.

White Shark Bay to Monster Mountain	2.212km	2km + _____ km
Monster Mountain to Murky Marsh	4370m	3km + _____ km
Murky Marsh to Spiky Spider Tree	1.9km	1000m + _____ m
Spiky Spider Tree to Terrible Turtle	3005m	2km + _____ km
Terrible Turtle to Coconut Trees	6.95km	4000m + _____ m
Coconut Trees to Treasure Chest	1039m	1km + _____ m

1) Here are two journeys taken from a treasure map.



Journey A	Journey B
White Shark Bay to Spikey Spider Tree 8482m	Murky Marsh to Coconut Trees 11.855km

Journey A is a greater distance than journey B because 8482 is greater than 11.

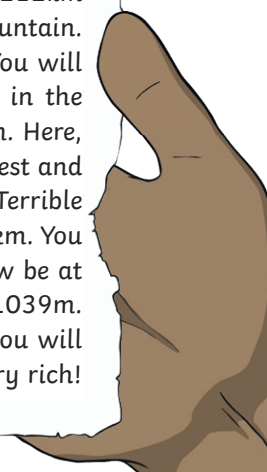
Do you agree with this statement? Explain your answer.

2) An explorer is using the treasure map to find a treasure chest.

I follow the instructions on the treasure map and walk a total distance of 194 760 metres.



From where you are at White Shark Bay, walk 2.212km south until you reach the bottom of Monster Mountain. Turn north-west and walk for another 4370m. You will find yourself at Murky Marsh – don't get stuck in the mud! Turn to face east and walk a further 1.9km. Here, you will find the Spiky Spider Tree. Turn north-west and walk for 3005m where you will be met by the Terrible Turtle. Walk east with the Terrible Turtle for 6.95km. You will reach a cluster of coconut trees. You will now be at the mouth of a large cave. Walk into the cave for 1039m. If you have followed these directions carefully, you will find a treasure chest. You are about to become very rich!



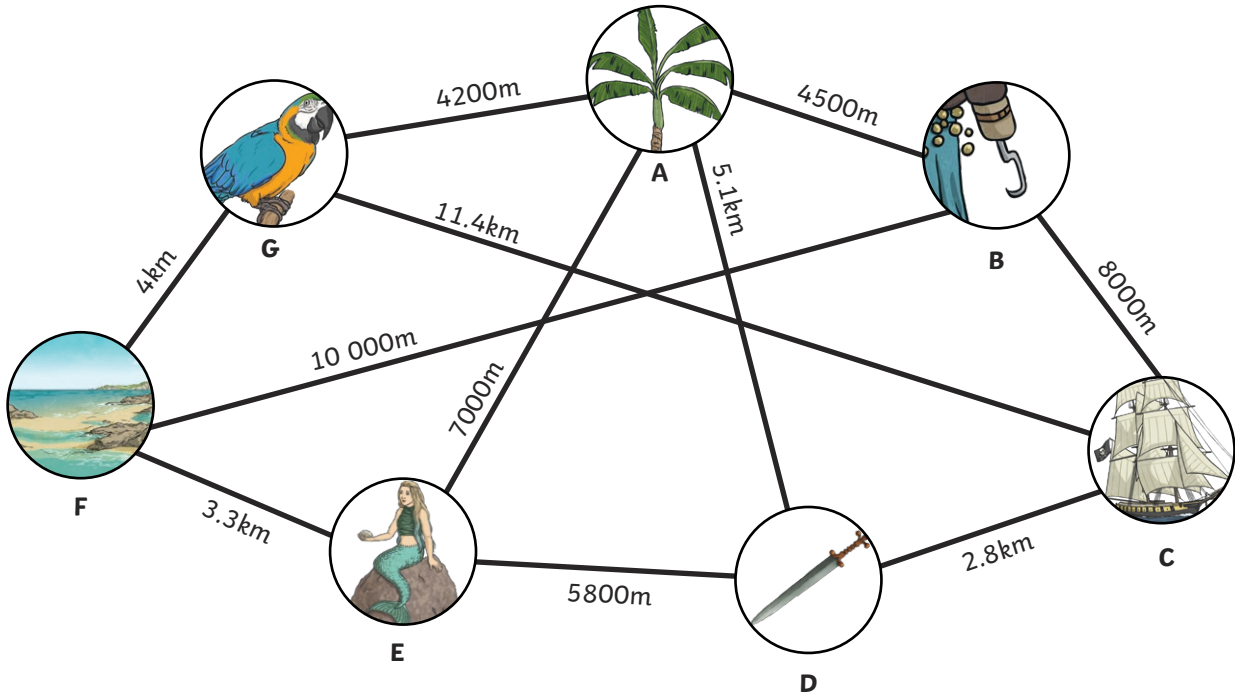
Explain why the explorer is incorrect.

What mistake do you think the explorer has made in their calculations?



Here is a treasure map.

- An explorer travels from the palm tree back to the palm tree.
- They visit each of the other places on the map only once.
- The explorer must visit location B first.
- There are four possible routes for the explorer to take.
- Find the total distances of the possible routes.



- 1) What is the distance of the shortest route in metres? _____
- 2) What is the distance of the longest route in kilometres? _____
- 3) What is the difference between the shortest and longest routes in centimetres? _____