



Name: _____

Class: _____ Date: _____

Shrinking Continents with Maths

An activity of "Discovering lost continents"

"Discovering lost continents" (*What's Up* May 2020) brings to life a whole new world that lies beneath the oceans. Exciting discoveries are happening even now. Read it and enter into a new realm.

A. Complete the following table:

i) 1km = _____ m	ii) 1cm = _____ km
iii) 1km ² = _____ m ²	iv) 1km ² = _____ cm ²

B. A wall map of Australia was designed such that the area of Australia on the map is 10,000 million times smaller than the actual ground area. The *What's Up* article tells us that, in 2011, a lost continental fragment was discovered more than 1,000 km west of Perth. Using this information, calculate the following:

i) Find 'n' if the scale of the map is 1:n.

ii) Express the area of Queensland on the wall map as a fraction of the actual land area of Queensland.

iii) Evaluate the approximate minimum distance on the wall map between the lost continental fragment discovered in 2011 to the west of Perth and Perth itself, given that the actual distance between them is more than 1,000 km.