## Girls Who Grew Up to Change the





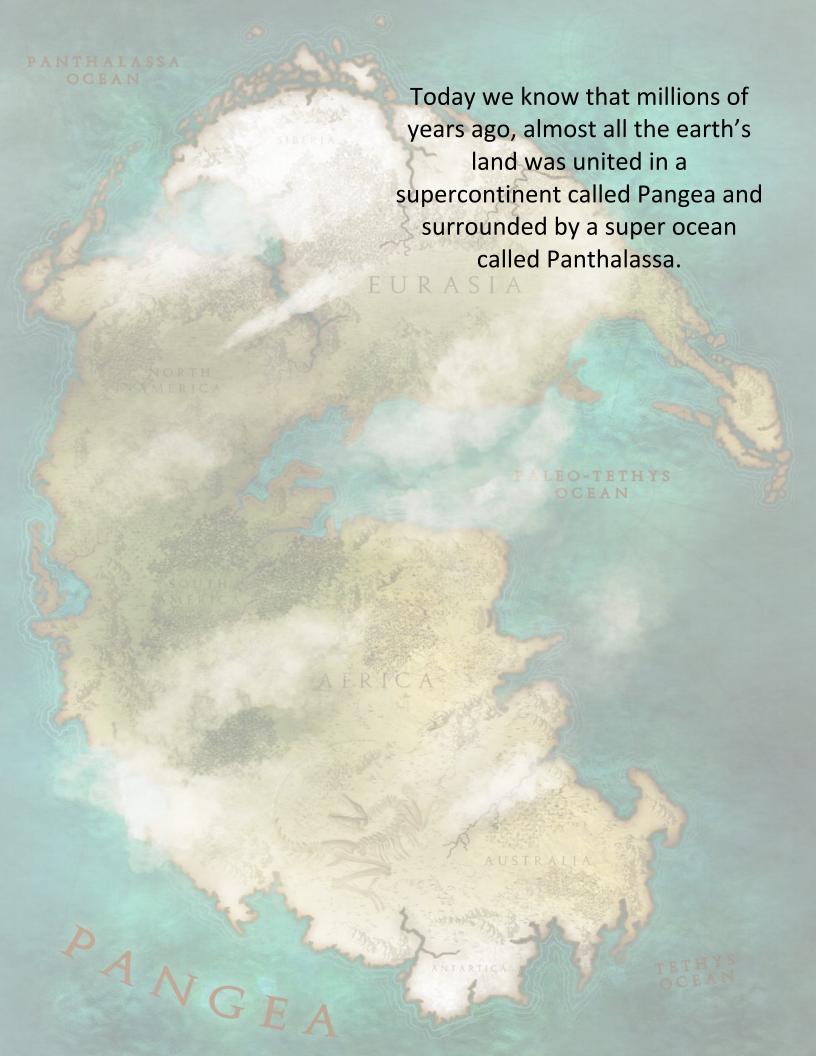


**Marie Tharp** 









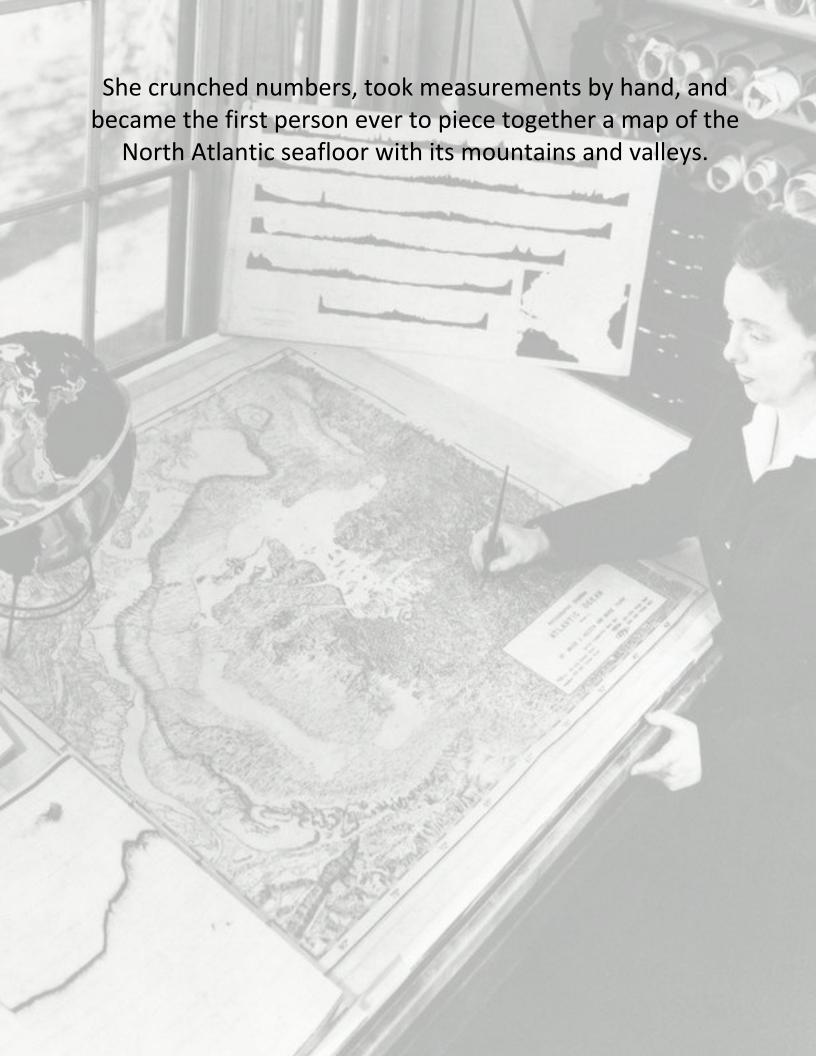
In Marie's time, though, this was still just a theory based on the simple observation that the coastlines of South America and Africa looked like the matching pieces of a gigantic jigsaw puzzle. In between the continents there were now huge oceans.

To prove that such distant lands had once been united, the ocean floor had to be mapped.

People assumed that the bottom of the ocean was flat, and this idea wasn't challenged until geologists started to use sonar onboard ships.

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The sonar bounced sound waves off the bottom of the ocean, and it was Marie's job to make sense of the readings.





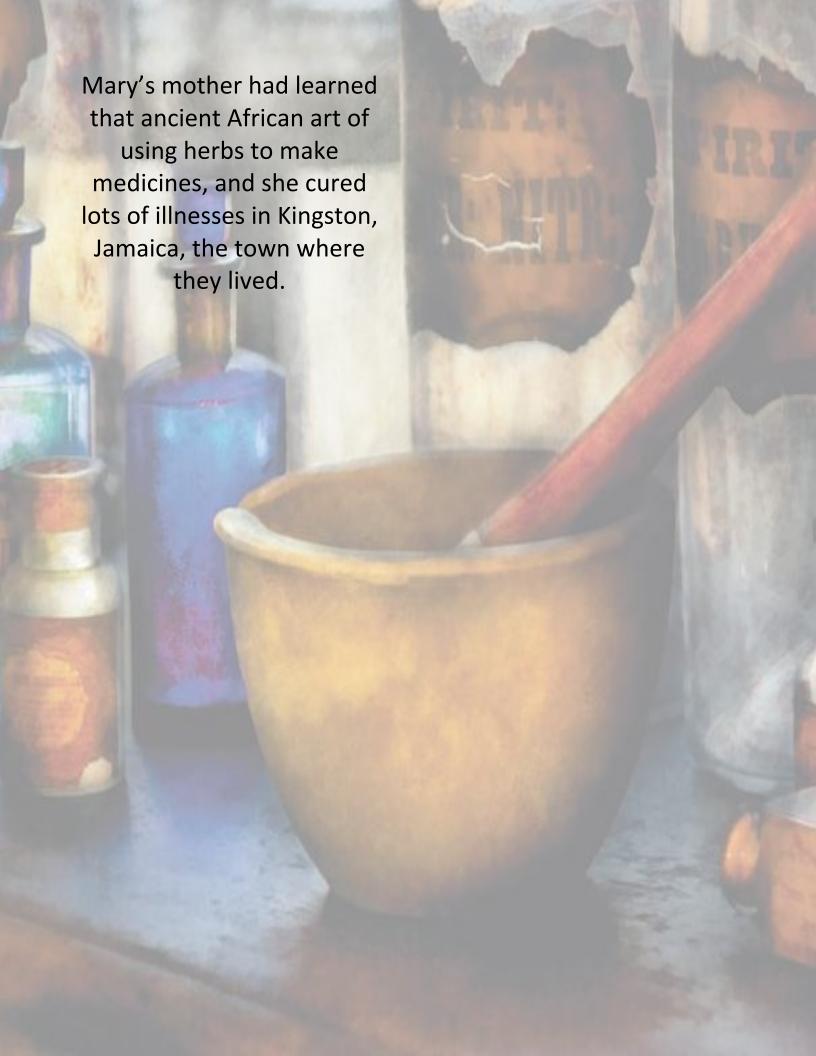
Marie discovered that at the bottom of the Atlantic Ocean, there was an incredibly deep rift valley that looked just like the Great Rift Valley in Africa. It formed part of a system that encircled the entire globe!

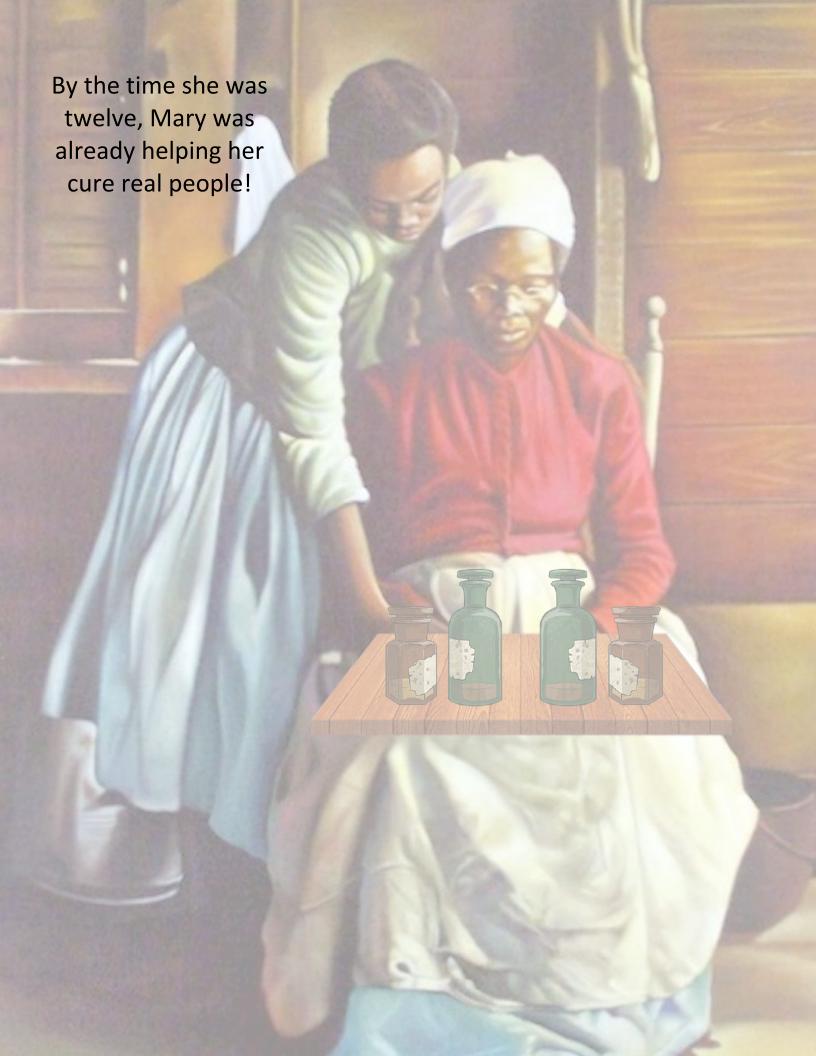


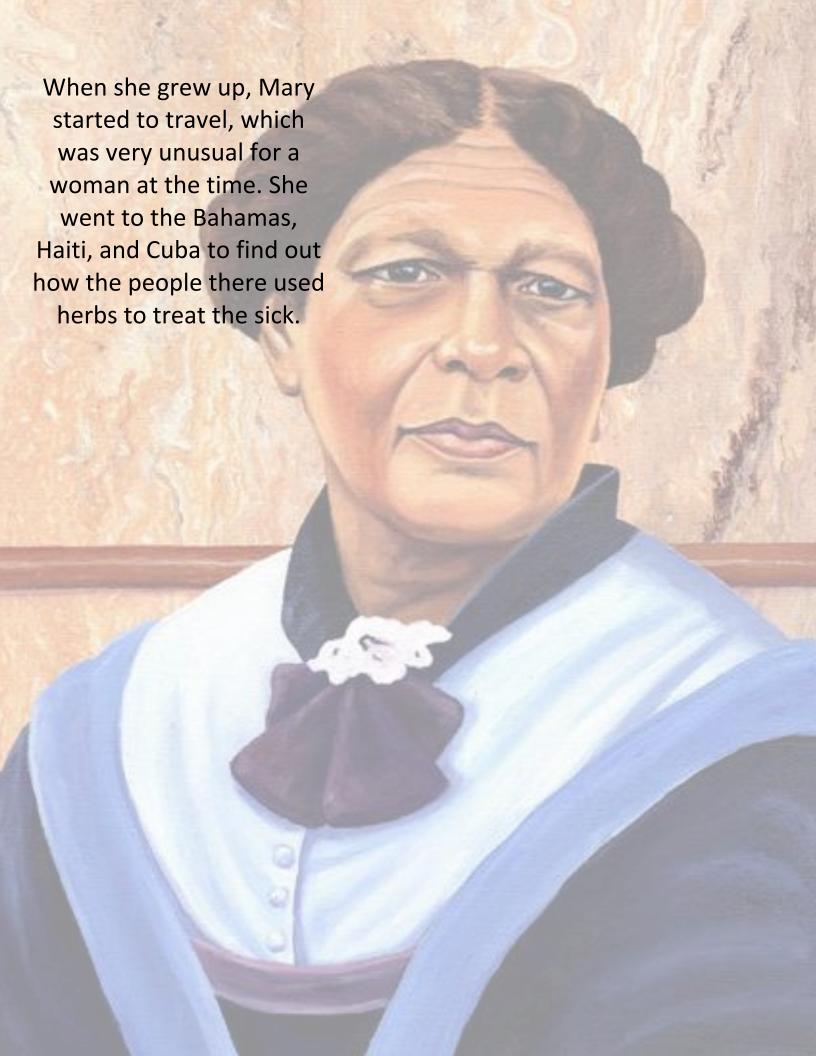




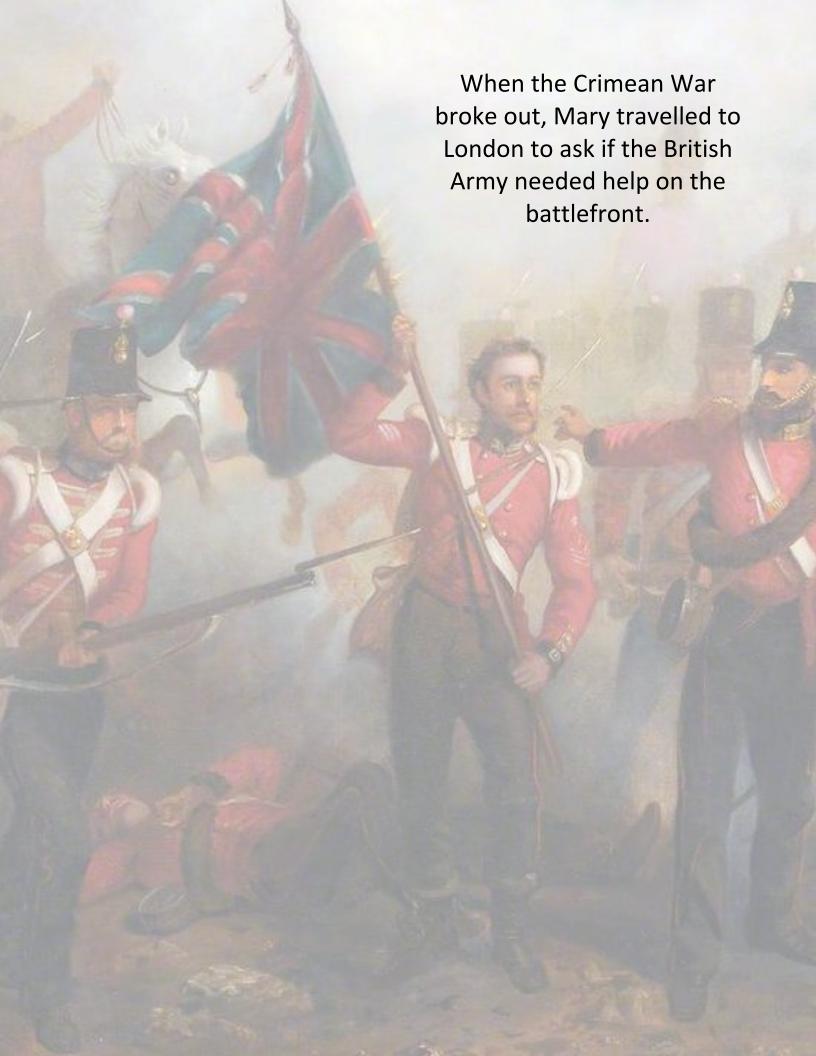
Once there was a little girl named Mary who was great at curing her dolls. If one had a fever, Mary would lay a wet facecloth on her forehead. If another's tummy hurt, she'd give her pretend hot tea.







In Panama, she risked her life to help local nurses and doctors cure patients during a cholera epidemic.





Mary travelled right to the front lines with two mules to bring medicines and food to soldiers. For her, any wounded soldier was a wounded human being: she didn't look at uniforms and treated men from both sides, often while bullets were flying and cannons thundered all around.



