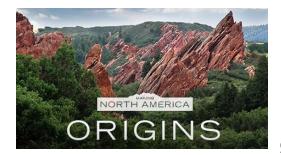
Do not write on this.



Directions: Complete the following questions as you view the video.

GRAND CANYON (0:00 – 9:00)

How long is the Grand Canyon?
What is the top layer of the Grand Canyon made of?
What is the second layer made of? _____ and is loaded with
What was the Grand Canyon like 340 million years ago?
How long ago was the bottom rock of the Grand Canyon formed?

OLDEST ROCKS - EARTH'S FORMATION - (9:00 - 14:34)

- 6. The first rocks on our planet formed how long ago?
- 7. Erupting since Mount Kilauea has spewed out billion tons of lava.
- 8. All land started as what?
- 9. How does basalt turn into granite?

(remember, basalt is what oceanic crust is made of, granite is continental crust)

CONTINENTS – Mid-Continent Rift – (14:34-25:10)

- 10. How old are the rocks in the mine?
- 11. What was the name of the first version of the North American continent?
- 12. What waves are used to determine what is below Lake Superior?
- 13. How much Basalt is below Lake Superior?
- 14. What might have stopped the rift in our continent?

BUILDING COASTLINES – East Coast – (25:10-31:25)

- 15. What turned the original mud of Manhattan into hard rock (schist)?
- 16. Why is the center section of New York City lacking sky-scrapers?
- 17. What type of land terrain existed in New York 440 million years ago?
- 18. What happened to the mountains?

NORTH AMERICA'S SHAPE (31:25-43:00)

- 19. What type of terrain existed 200 million years ago in Utah?
- 20. What was the name for the mega-continent that existed over 300 million years ago?
- 21. What causes the circles in the sandstone of Utah?
- 22. What is the name for the mountain range that existed before today's Rocky mountains, 300 million years ago?
- 23. What caused the second version of the Rocky Mountains?

BUILDING COASTLINES – West Coast – (43:00-)

- 24. Why are there a palm front (leaf) and coral fossils in Alaska?
- 25. What is the name for the fault line that cuts through Tomales Bay between the Pacific Plate and the North American plate?
- 26. How fast is the Pacific plate moving north?
- 27. What can tension build-up along this fault cause?
- 28. Sooner or later_____ and____ will be neighbors.