

NAME:

1. What is hot spot volcanism?

2. Which type of volcanic cone is:

- a. the smallest?
- b. the flattest?
- c. the most symmetrical?

3. **Indonesian Mount Tambora's** 1815 outburst is the largest volcanic eruption in recorded history. The eruption caused global climate anomalies that included the phenomenon known as "volcanic winter": 1816 became known as the "Year Without a Summer" because of the effect on North American and European weather. Crops failed and livestock died in much of the Northern Hemisphere, resulting in the worst famine of the 19th century.

Question: given the speed of sound in the air equal to 340 meters per second, calculate how soon the explosion was heard on Sumatra, which is about 2,000 km away (1 km=1000 meters)?