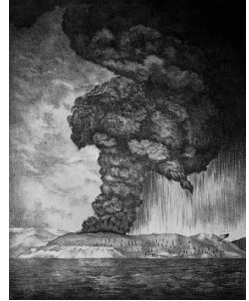


## Classify the volcano

Using your volcanoes information sheet, classify each of the following volcanoes as either a cinder cone, a composite cone, or a shield cone, and state which information you used to make this decision. Remember that the “three types” classification scheme isn't perfect!

### Volcanoes

1. Krakatoa, Indonesia: 800 meters high. Its explosive eruption in 1883 was so loud that people 3,000 miles away could hear it. (Shown in drawing.)
  - A. Cinder, Composite, or Shield?
  - B. Explain!
2. Muana Loa, Hawaii: The largest volcano on Earth, its eruptions have steady lava flows.
  - A. Cinder, Composite, or Shield?
  - B. Explain!
3. Mount Etna, Italy: Eruptions in 2002 produced smoke cloud easily seen and photographed from the International Space Station. Produces some lava flows, but mostly tephra.
  - A. Cinder, Composite, or Shield?
  - B. Explain!
4. Parícutin, Mexico: In 1943, a fissure opened on the farm owned by Dionisio Pulido. Ash and stones exploded out of the crack. Within a year, the pile of tephra from other explosions was 300 meters high and Pulido's village was buried. Frequent explosions continued until 1952.
  - A. Cinder, Composite, or Shield?
  - B. Explain!



5. Mount Pinatubo, Philippines: Eruption in 1991 released so much ash into the atmosphere that global temperatures dropped by a full degree over the next two years. This eruption was so violent that it also shortened the mountain from 1.7 km to 1.4 km.
- A. Cinder, Composite, or Shield?
  - B. Explain!

6. Mount Rainier, Washington: Shown to the right. Hasn't erupted in over 100 years, but in the past has produced mudflows that reached over 30 miles and blasted away its own top 500 m.
- A. Cinder, Composite, or Shield?
  - B. Explain!



7. Nyamuragira, Congo: Over 3 km tall, has multiple erupting fissures and craters. Produces large, thin lava flows.
- A. Cinder, Composite, or Shield?
  - B. Explain!

8. Capulin, New Mexico: Shown to the right. Extinct for thousands of years, this volcano is made mostly of basaltic tephra.
- A. Cinder, Composite, or Shield?
  - B. Explain!

