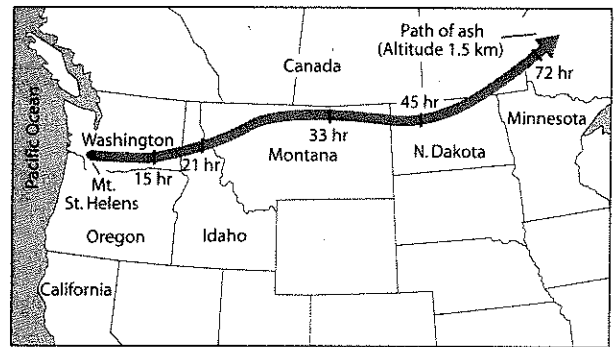


TOPIC 1 QUIZ

- Which descriptive term illustrates an inference about a mineral?
 - transparent
 - bitter
 - younger
 - smooth
- Students often use classification systems to
 - extend their powers of observation
 - organize their observations in a meaningful way
 - make direct comparisons with standard units of measurement
 - make more accurate interpretations
- Students calculated the circumference of a globe to be 60 centimeters. The actual circumference of the globe is 63 centimeters. The percent deviation of the students' calculation was
 - 0.48%
 - 4.8%
 - 5.0%
 - 21%
- Which of the following is NOT a natural resource?
 - plastics
 - trees
 - minerals
 - gases from the atmosphere
- If a glacier receives new snow each year but stays the same size because of melting and evaporation, the glacier is
 - a natural resource
 - in dynamic equilibrium
 - a non-cyclic change
 - classified as a hazard
- Why have humans been such a big factor in the pollution of the environment?
 - They have had many wars.
 - They are larger in size than most animal forms.
 - Their technology creates pollutants.
 - They are the only form of life that can adapt to almost all the environments on Earth's surface.

- The eruption of Mount St. Helens in 1980 resulted in the movement of volcanic ash across the northwestern United States. The movement of the ash at 1.5 kilometers above sea level is shown as a shaded path on the map below. The times marked on the path indicate the length of time the leading edge of the ash cloud took to travel from Mount St. Helens to each location.

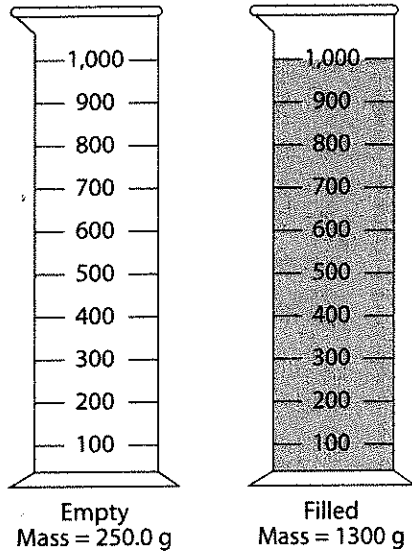


Calculate the average rate of movement of the volcanic ash for the first 15 hours, following the directions below.

- Write the equation used to determine the average rate of the volcanic ash
- Substitute values into the equation.
- Solve the equation and label the answer with the correct units.

TOPIC 1 QUIZ (CONTINUED)

8. As shown in the following diagram, an empty 1000 mL container has a mass of 250 g. When filled with a liquid, the container and the liquid have a combined mass of 1300 g.



What is the density of the liquid?

- (1) 1.00 g/mL
- (2) 1.05 g/mL
- (3) 1.30 g/mL
- (4) 0.95 g/mL

- 9.-11. List three completely different types of natural hazards.

Name _____
ES Per. _____
Date _____
Ms. Re _____

CHAPER ONE REVIEW

An earthquake in Saudi Arabia caused a break in an oil pipeline that connected oil wells to shipping facilities in the Persian Gulf. A total of 120,000 gallons of crude oil (density 0.86 g/cm^3) spilled onto the desert soil. At first it was thought that 50,000 gallons eventually flowed into a reservoir that supplies drinking water to several communities. Later it was learned that only 35,000 gallons had flowed into the reservoir.

The cleanup crews removed the crude oil from the reservoir in a little over a week. It took much longer to remove the crude oil from the sandy desert soil. After two weeks of continuous effort, only 5000 gallons of oil had been removed. This area of the desert is irrigated and used for growing crops, most of which were killed by the crude oil. It is not yet known if all the oil can be removed from the soil and if crops will grow in the region again.

1. Which physical property of the crude oil allowed it to be easily cleaned up from the water reservoir? [1]
2. Why is the earthquake in the article considered to be a natural disaster? [1]
3. Calculate the percent deviation of the first estimate of the amount of crude oil in the reservoir compared to the actual amount. Be sure to show ALL work including writing the equation, substituting values, and indicating the answer. [2]
4. What was the rate of crude oil recovery from the soil in gallons per day for the two-week period described in the article? Be sure to show ALL work including writing the equation, substituting values, and indicating the answer. [2]