

Name: \_\_\_\_\_

Foundations

Date: \_\_\_\_\_ Period: \_\_\_\_\_

Earth Science

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## Supplemental: Observation and Inference

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Directions: Determine whether each of the following examples is an inference or an observation.

1. This rock has large crystals.
  - a. inference
  - b. observation
  
2. Based on their shapes I believe Africa and South America were once connected.
  - a. inference
  - b. observation
  
3. This pebble has a diameter of 3.2 cm.
  - a. inference
  - b. observation
  
4. After the thunder and lightning of the cold front I predict cooler air will move in to this area.
  - a. inference
  - b. observation
  
5. I see that a steel nail left a scratch mark on this mineral sample when I tried to scratch it.
  - a. inference
  - b. observation
  
6. Object A feels heavier than object B.
  - a. inference
  - b. observation
  
7. Because of the fins on this fossil I believe this animal lived in the water.
  - a. inference
  - b. observation
  
8. Object A is 3.5 cm longer than object B.
  - a. inference
  - b. observation
  
9. I think this rock is igneous because it has intergrown crystals.
  - a. inference
  - b. observation
  
10. I believe the children are our future, if we teach them well they can lead the way.
  - a. inference
  - b. observation

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# Supplemental: Observation and Inference

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Directions: Determine whether each of the following examples are qualitative data or quantitative data.

11. 45% of workers in New York earn above minimum wage.
  - a. qualitative
  - b. quantitative
12. Charlie is taller than Brady.
  - a. qualitative
  - b. quantitative
13. The cake recipe requires 3 cups of flour.
  - a. qualitative
  - b. quantitative
14. The barometric pressure is falling.
  - a. qualitative
  - b. quantitative
15. The barometric pressure has fallen 10 millibars in the past hour.
  - a. qualitative
  - b. quantitative
16. 17 students passed the Earth Science Regents exam.
  - a. qualitative
  - b. quantitative
17. It is 1,100 miles to Daytona Beach, Florida.
  - a. qualitative
  - b. quantitative
18. Sprinters run faster than distance runners.
  - a. qualitative
  - b. quantitative
19. Carmen Sandiego is 13,000 miles from Trinidad Airport.
  - a. qualitative
  - b. quantitative
20. My lazy daughter sleeps 12 hours a day.
  - a. qualitative
  - b. quantitative