

Name \_\_\_\_\_

Date \_\_\_\_\_

Mini-ocean # \_\_\_\_\_

**\*Key\***

1. What features are present in your mini-ocean?

*Answers will vary.*

2. Could you have missed a feature? Explain.

*Yes. Probes only go in at certain intervals. A feature could be found between soundings.*

3. What kind of feature would be the easiest to miss?

*Small or hidden changes.*

4. How could you use a probe to find the shape of the real ocean floor?

*Lower a probe and record the distance needed to reach the bottom. Do this at regular intervals.*

5. What would be one disadvantage of using a probe to measure the real ocean floor?

*The ocean floor is too deep to be surveyed with a probe.*

6. What are two ways (other than a probe) to get information about the bottom of the ocean?

*Sonar, observation from a submarine, satellite readings*

7. How could a probe be used to determine the composition of the ocean floor?

*Probes could be used to bring up samples from the bottom.*

YOU MAY OPEN YOUR BOX TO ANSWER THE FOLLOWING QUESTIONS

8. How does your map compare with what is really present?

a. In ways is it similar?

---

---

b. In what ways is it different?

---

---

9. Other than opening the box, what is one way you could get a better picture of the bottom?

*Take more readings with the probe. Drill more holes and take readings closer together.*

10. The techniques you used are essentially the same as those used by early navigators to chart the depths of the ocean. Do you think they obtained a completely accurate picture of the ocean floor using these methods?

Please explain your answer.

---

---

---