

**Enrichment Worksheet 30**

**Use with Lesson 7-4**

**Reflection**

*Skills: interpreting diagrams, applying concepts*

*The diagrams on this page show various properties of reflection. Use the diagrams to answer the questions.*

1. What is represented by the letter i on this diagram?

\_\_\_\_\_

2. What is represented by the letter r? \_\_\_\_\_

\_\_\_\_\_

3. What must be true about i and r? \_\_\_\_\_

\_\_\_\_\_

4. What does the dotted line on the diagram represent?

What is its relationship to the barrier? \_\_\_\_\_

\_\_\_\_\_

5. Use a protractor to measure angle i.

6. On the diagram, use your protractor to correctly draw the reflected wave. Label the reflected wave and angle r.

7. What is different about the barrier in this diagram?

\_\_\_\_\_  
\_\_\_\_\_

8. What do you notice about the incident waves and the reflected waves? \_\_\_\_\_

\_\_\_\_\_

9. How do you account for this? \_\_\_\_\_

\_\_\_\_\_

10. How would the reflected waves look if the surface were flat? \_\_\_\_\_

\_\_\_\_\_

