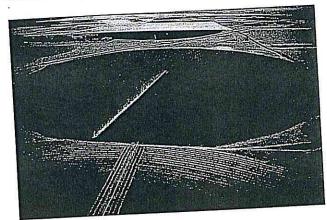
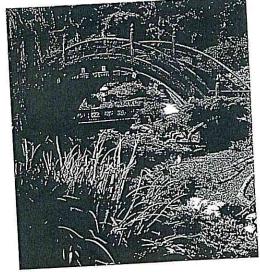
EXERCISES

1. In the photos below, identify the physical models that represent a circle, a radius, a chord, a tangent, and an arc of a circle.



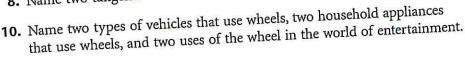
Circular irrigation on a farm



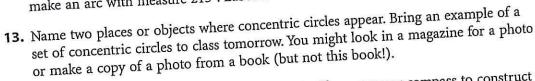
Japanese wood bridge

For Exercises 2-9, use the diagram at right. Points E, P, and C are collinear, and P is the center of the circle.

- 2. Name three chords.
- 4. Name five radii. Name two semicircles.
- 8. Name two tangents.
- 3. Name one diameter.
- Name five minor arcs.
- 7. Name two major arcs.
- 9. Name a point of tangency.



- **11.** In the figure at right, what is \widehat{mPQ} ? \widehat{mPRQ} ?
- 12. Use your compass and protractor to make an arc with measure 65°. Now make an arc with measure 215°. Label each arc with its measure.



- 14. Sketch two circles that appear to be concentric. Then use your compass to construct a pair of concentric circles.
- 15. Sketch circle P. Sketch a triangle inside circle P so that the three sides of the triangle are chords of the circle. This triangle is "inscribed" in the circle. Sketch another circle and label it Q. Sketch a triangle in the exterior of circle Q so that the three sides of the triangle are tangents of the circle. This triangle is "circumscribed" about the circle.

