Mid-Unit Review

LESSON

- A circle has radius 3.6 cm. What is its diameter?
 - **2.** A circle has diameter 3.6 cm. What is its radius?
 - 3. a) Draw a large circle. Label its centre C. Mark points P, Q, and R on the circle. Join P, Q, and R to form △PQR. Join QC and RC. These line segments form 2 angles at C. Measure ∠QPR and the smaller ∠QCR. How are these angles related?
 - b) Repeat part a for a different circle. Is the relationship in part a still true? Explain.
- 6.2 4. The face of a penny has
 - 🧼 radius 9.5 mm.
 - a) Estimate the circumference of the penny.
 - b) Calculate the circumference.Give the answer to the nearest tenth of a millimetre.
 - 5. An auger is used to drill a hole in the ice, for ice fishing. The diameter of the hole is 25 cm. What is the circumference of the hole?
 - **6.** Explain how you could calculate the circumference of a paper plate.

- 7.) There is a clock on the Peace Tower
- in Ottawa. The circumference of the clock face is approximately 15.02 m.
 - a) Estimate the diameter and radius of the clock face.
 - b) Calculate the diameter and radius of the clock face to the nearest centimetre.
- 8. a) How is the circumference of a circle with radius 9 cm related to the circumference of a circle with diameter 9 cm?
 - **b)** Draw both circles in part a.
- **9.** The radius of a circular tray is
 14.4 cm. What is its area to the nearest square millimetre?
 - **10.** The diameter of a circle is 58 m. What is its area to the nearest square centimetre?
 - 11. A circular table has radius 56 cm. A tablecloth covers the table. The edge of the cloth is 10 cm below the tabletop. What is the area of the tablecloth?
 - **12.** a) How is the area of a circle with radius 6 cm related to the area of a circle with diameter 6 cm?
 - b) Draw both circles in part a.Do the diagrams justify your answer in part a? Explain.