Name: _____   Date: _____

Section 7.3 Math Link

This worksheet will help you with the Math Link on page 267.

1. a) On a separate sheet of paper, design and sketch a table with a rectangular
   top.
   b) Label the sketch with the following dimensions:
   • 60 cm for the diameter of the supporting column
   • 10 cm for the thickness of the top
   • any reasonable dimension for the height of the column
   • any reasonable dimension for the length and width of the top
   c) What is the volume of the top? Show your calculations.

   d) What is the volume of the cylindrical base? Show your calculations.

2. a) On a sheet of paper, design and sketch a table with a circular top.
   b) Label the sketch with the following dimensions:
   • 60 cm for the diameter of the supporting column
   • 10 cm for the thickness of the top
   • any reasonable dimension for the height of the supporting column
   • any reasonable dimension for the diameter of the top
   c) What is the volume of the top? Show your calculations.

   d) What is the volume of the cylindrical base? Show your calculations.

3. a) What answers from above would you need to find the total volume of
   concrete needed to make both picnic tables?

   _____

   _____

Show your calculations for parts b) and c).
   b) Determine the volume of concrete needed for the table with a rectangular
   top.

   c) Determine the volume of concrete needed for the table with a circular top.