Name: _____   Date: _____

Section 8.2 Math Link

This worksheet will help you with the Math Link on page 279.

The tabla is the most popular percussion instrument used in northern India. The frame for a tabla is made of wood. A single strip of wood is bent to form a circle.

Example:
If a drum has a diameter of 38.5 cm, what length of wood is needed to make the frame? Show your answer to the nearest tenth of a unit.

Solution:
I am given the diameter. I need to find the circumference.
$C = \pi$, $d = 38.5$ cm

$C = \pi \times d$
$C = 3.14 \times 38.5$ cm
$C \approx 120.89$
$C \approx 120.9$ cm

The length of wood needed to make the frame is 120.9 cm.

1. If a drum has a diameter of 52.5 cm, what length of wood is needed to make the frame? Show your answer to the nearest tenth of a unit.

   I am given the _____. I need to find the _____.