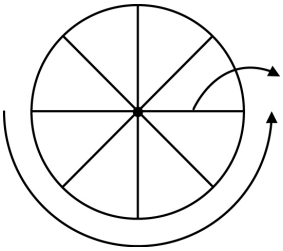
Name: _____ Date: _____

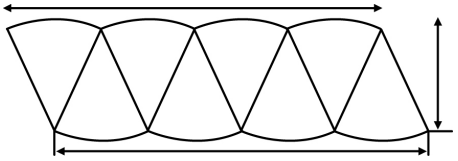
BLM 8–10

Section 8.3 Extra Practice

1. Fill in each blank with the correct word. Use the diagram and the word list to help you.

base height radius $\pi \times r$ $\pi \times r^2$ r





a) The formula for the area of a parallelogram is _____ × _____.

b) The circumference of a circle is $2 \times \pi \times r$. Half of the circumference of a circle is _____.

c) Half of the circumference of the circle is approximately equal to the length of the _____ of the parallelogram.

d) The height of the parallelogram is approximately equal to the _____ of the circle.

e) The area of the parallelogram is the _____, which is $\pi \times r$, times the _____, which is r, so the area of a circle equals _____.

2. Complete the table by estimating the missing values. Use 3 as an approximate value for π. The first one is done for you. **Hint:** Do not use a calculator when estimating.

Radius	Radius Squared	Diameter	Area
20 cm	400 cm^2	40 cm	400 $cm^2 \times 3 = 1200$ cm^2
a) 5 cm	_____ cm^2	_____ cm	_____ cm^2
b) _____ cm	_____ cm^2	16 cm	_____ cm^2

3. Use a calculator to help calculate the missing values in the table. Use 3.14 as a value for π. Round all answers to the nearest tenth. The first one is done for you.

Radius	Diameter	Area
35 cm	70 cm	$35^2 \times 3.14 = 3846.5$ cm^2
a) 11 cm	_____ cm	_____ cm^2
b) ___ cm	12 cm	_____ cm^2