**Dividing It Up!** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Solve the problems below. Show your strategies and work. Use the approximation 3.14 for π. Round your calculations to the nearest hundredth.

1. *r* = 12 ft

length of minor arc = \_\_\_\_\_\_\_\_\_

length of major arc = \_\_\_\_\_\_\_\_\_

A

B

C

1. *r* = 19 dm

Angle A = 60◦

Area of Circle A = \_\_\_\_\_\_\_

Area of Sector CAB = \_\_\_\_\_\_\_

P

M

L

1. *d* = 68.4 m

Angle P = 120◦

Length of minor arc = \_\_\_\_\_\_\_

Area of sector LPM = \_\_\_\_\_\_\_

1. Jack and Anna will sell pizza for a fundraiser. They will sell it based on the area of the slice at $0.20 per square inch. Calculate the area and price of these slices:

a) radius 4 inches, central angle 60◦  \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_

b) diameter 12 inches, cut into 8 slices \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_

c) diameter 16 inches, central angle 30◦ \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_