

Hwk #8: Squaring a Circle to Find its Area (Inv. 3.3)

1. A juice can is about 2.25 inches in diameter. What is its circumference?
 - A. 3.35 in
 - B. 3.97 in^2
 - C. 7.065 in
 - D. 14.13 in
2. A pizzeria sells three different sizes of pizza. The small size has a radius of 4 inches, the medium size has a radius of 5 inches, and the large size has a radius of 6 inches. Complete the table.

Pizza Size	Radius(<i>in.</i>)	Diameter (<i>in.</i>)	Circumference (<i>in.</i>)	Area (<i>in.</i> ²)
Small				
Medium				
Large				

3. Explain how you found the areas for the pizzas in the table above.
4. Jamar claims the area of a pizza is about $0.75 \times \text{diameter}^2$. Is he correct? Explain.