8-2 I can calculate the arc length and area of a sector

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l fi	ow do ind c ngth?	part = arc whole circumferenc (usually a given fraction)	e
Н	ow do		
	ind	Circumference Ar	ea art
ar	ea of	_	
а		Circumference Ar	'ea
se	ector?	Wilele	

A sector of a circle is shown.

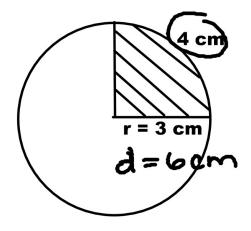
a. Circumference of whole circle:

b. Area of whole circle:

c. Arc length of sector:

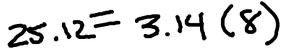


d. Area of sector:



Betty cuts an 8 inch pie is cut into 6 pieces of equal size. Find the following:







b. Area of whole circle:

113.04= 3.14 (6)2

8=6

c. Arc length of sector:

16=

X=12

76

d. Area of sector:

6= X 113.04

A school surveyed 250 students to determine how they got to school. Each person selected form of transportation. The results are shown in the circle graph below. If an equal number of students chose biking and car, how many students biked to school?

 $\frac{25}{100} = \frac{x=62.5}{250}$

