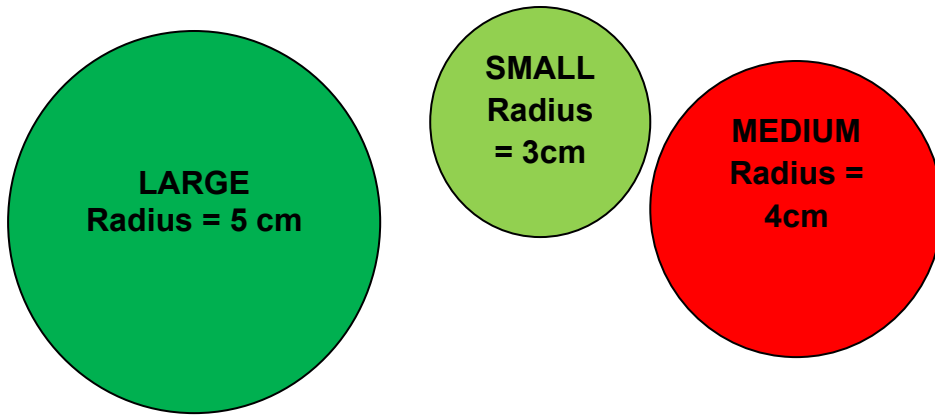


AREA OF A CIRCLE

INVESTIGATION

PIZZA SIZES



Q1. A pizzeria sells 3 sizes of pizzas – small, medium and large. The chef claims that the area of the large sized pizza is equal to the combined area of the small pizza and the medium pizza. Complete the table to find the areas of the 3 pizzas. Is the chef's claim correct?

	RADIUS	AREA
LARGE	5cm	$A = \pi r^2$ $= 3.14 \times 5 \times 5$ $= 78.5 \text{ cm}^2$
SMALL	3cm	
MEDIUM	4cm	

Q2. Consider Pythagoras's Triads. Show another set of pizza sizes that will satisfy the chef's claim.