Name _____   Date _____

Area and Circumference of a Circle - Step-by-Step Lesson

Julia's Circle Problem:

Julia builds a mini round table for her sister. She wants to put a red table cloth on the table. If the table is 8 feet in diameter, how many square feet of red table cloth will she need to buy to cover the table circle? Use 3.14 for pi.

Explanation:

We need to calculate the area of the circle:

Area of circle = Πr^2

We know Π = 3.14

We need to find the radius. We can use: D = 2 x r

Diameter = 8   radius = ?

8 = 2 x r

r = 8 ÷ 2

r = 4

Area of circle = Πr^2

Area of circle = 3.14 x 4 x 4

Area of circle = 50.24 Square Feet