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 $\Pi = 3.14$

We need to find the radius. We can use: $D = 2 \times r$

Diameter = 8 radius = ?

 $8 = 2 \times r$

 $r = 8 \div 2$

r = 4

Area of circle = Πr^2

Area of circle = $3.14 \times 4 \times 4$

Area of circle = 50.24 Square Feet