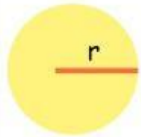


AREA OF A CIRCLE

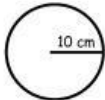
Name: _____ Class: _____



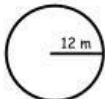
$$\text{Area} = \pi \times r \times r$$

$$= 3.14 \times r \times r$$

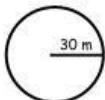
Part 1: Matching



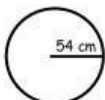
• 452.16 m²



• 2826 m²



• 314.00 cm²



• 9156.24 cm²

Part 2: Fill in the blanks



Chocolate Donut: $R = 6$ cm
Calculate the area:



Strawberry Donut: $R = 8$ cm
Calculate the area:



Matcha Donut: $R = 10$ cm
Calculate the area:



Lemon Donut: $R = 15$ cm
Calculate the area:

Part 3: Problem Solving

1. Baker Ben is baking a birthday cake. He needs to cover the entire base of his circular cake tin with parchment paper so the cake doesn't stick. He measures the line from the exact center of the cake tin to the outer edge. Radius (r) = 10 cm. How much paper does Baker Ben need to cut to cover the base? Find the area of the cake tin.

$$\text{Area} = 3.14 \times \underline{\hspace{1cm}} \times \underline{\hspace{1cm}}$$

$$\text{Area} = \underline{\hspace{1cm}} \text{ cm}^2$$

2. Maya is designing a beautiful new garden. She wants a small, circular pond in the middle of her lawn for some koi fish. She measures the line from the exact center of the pond to its outer edge to find the radius (r). Radius (r) = 3 m. What is the total area of Gardener Maya's koi fish pond?

$$\text{Area} = 3.14 \times \underline{\hspace{1cm}} \times \underline{\hspace{1cm}}$$

$$\text{Area} = \underline{\hspace{1cm}} \text{ m}^2$$

Part 4: Design and Calculate



Radius = 5 cm.
Calculate the area: