

## Exploring the Area of a Circle

$$A = \pi r^2$$

Calculate and show your work for the following word problems:

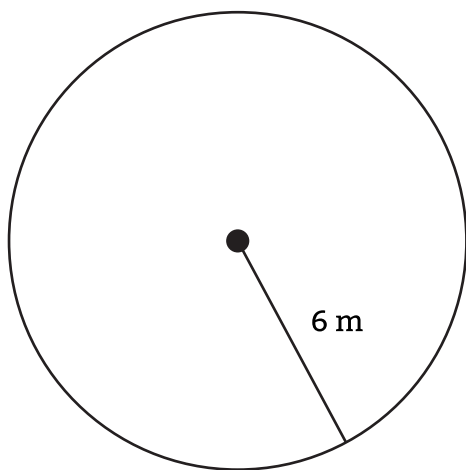
1. A restaurant sells 14-inch pizzas. The pizza size is the diameter of the circle. This restaurant sells its pizzas on a circular piece of cardboard.

How much cardboard would be needed for one of these pizzas?  
(Hint: Remember the formula requires the radius, not the diameter)

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2. A backyard pool has a radius of 6 metres. Pool covers are often a type of bubble wrap that lays on the top of the pool and acts as an insulation layer, so it loses less heat overnight when the temperatures drop.

How many square metres of material would be needed to make this backyard pool cover?



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