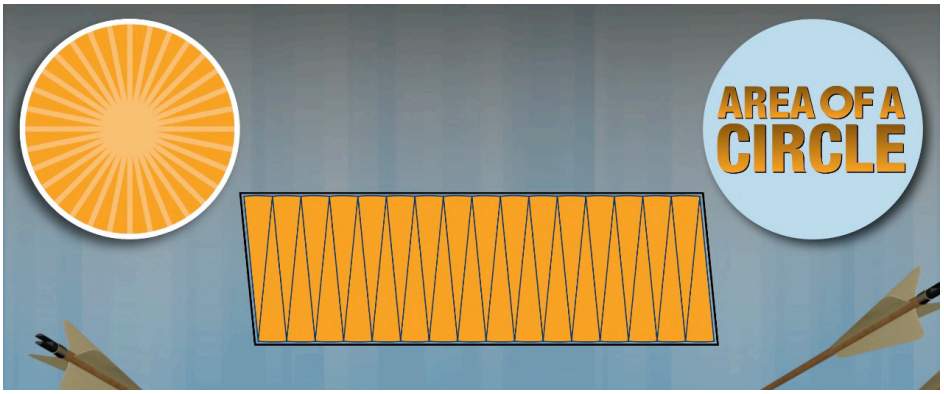
Area of a Circle
Problems from Video

You can slice a circular region into pieces and rearrange the pieces to form a shape that resembles a parallelogram. If you had an infinite number of slices, then the circle would form a parallelogram.



Use this representation to explain how to find the area of a circle and determine a formula for finding the area of any circle.

The radius of the largest circle on an Olympic-size archery target is 61 cm. The radius of the bull's-eye is 6.1 cm.

What is the area of the outer circle of the target? Show how you determined your answer.

What is the area of the bull's-eye of the target? Show how you determined your answer.