

# Pi Day Radians Game

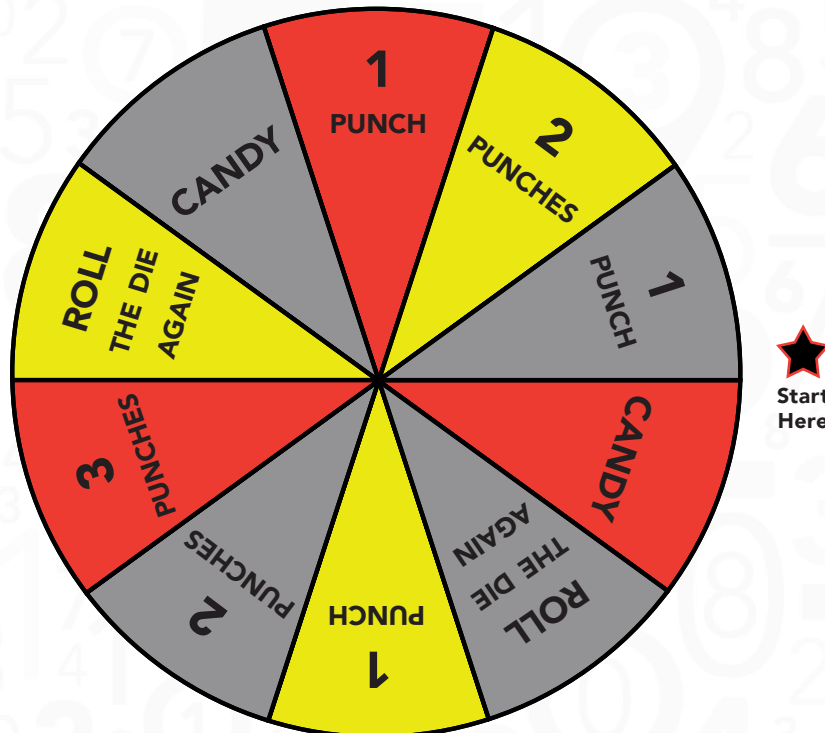
## Lower Elementary

In honor of Pi Day on March 14, let's play a game with a circle and its radians! All you'll need is string, scissors, and the prize wheel below.

**Pi**, or  $\pi$ , is the number you get when you divide a circle's **circumference** (its outer edge) by its **diameter** (the measurement across the exact middle of the circle). A circle's **radius** is half of the diameter (or the distance from the center of the circle to any point on its outer edge). When you measure a piece of the circumference that is equal to the measure of the radius, the **angle** formed by that piece of the circle is called a **radian**. Are you ready to play? Let's go!

### Gameplay Instructions

1. Measure a piece of string along the radius of the prize wheel. Cut a length of string equal to the radius.
2. Roll a die. Beginning at the "Start Here" star, use the length of string to measure that number of radians around the circumference of the wheel.
3. Win the prize closest to the end of the piece of string!



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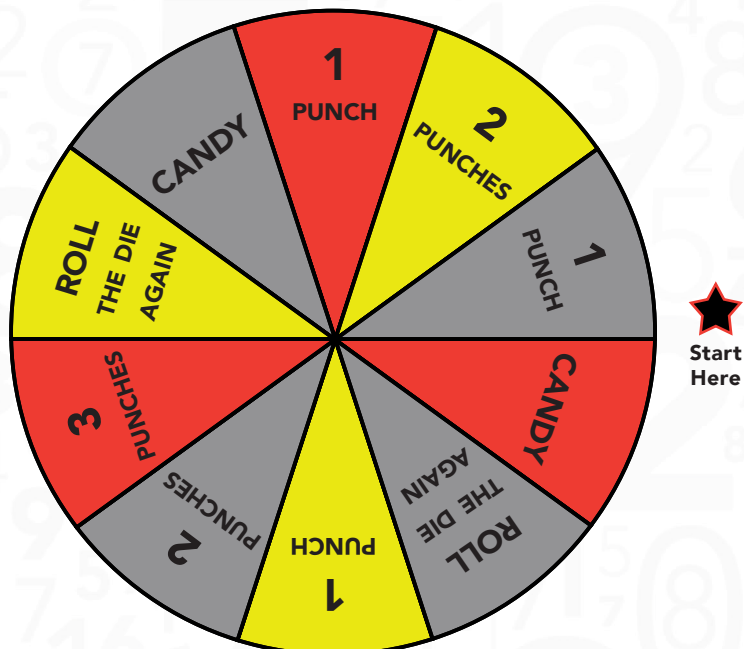
## Upper Elementary

In honor of Pi Day on March 14, let's play a game with a circle and its radians! All you'll need is string, scissors, and the prize wheel below.

**Pi**, or  $\pi$ , is the number you get when you divide a circle's **circumference** (its outer edge) by its **diameter** (the measurement across the exact middle of the circle). A circle's **radius** is half of the diameter (or the distance from the center of the circle to any point on its outer edge). When you measure a piece of the circumference that is equal to the measure of the radius, the **angle** formed by that piece of the circle is called a **radian**. Are you ready to play? Let's go!

### Gameplay Instructions

1. Measure a piece of string along the radius of the prize wheel. Cut a length of string equal to the radius.
2. Roll a die. Beginning at the "Start Here" star, use the length of string to measure that number of radians around the circumference of the wheel.
3. Win the prize closest to the end of the piece of string!



### Question to Think About:

A half of an apple pie has  $\pi$  radians, how many radians are in a whole apple pie?

