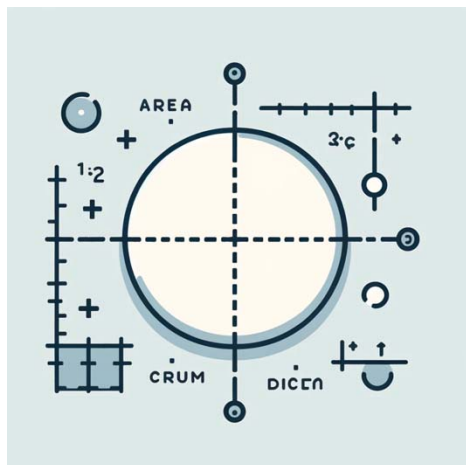


Name \_\_\_\_\_



## Circle Magic: Unveiling the Secrets of Area and Circumference

Welcome to the magical world of circles, where mysteries abound and secrets are waiting to be discovered! In this adventure, we'll unravel the formulas for finding the area and circumference of circles, unlocking the hidden treasures of geometry.

Let's start with the area of a circle. Imagine you're exploring a circular garden, marveling at its perfectly symmetrical shape. To find the area of the circle—the amount of space inside—you use a special formula:  $A = \pi r^2$ . Here,  $A$  represents the area, and  $r$  represents the radius of the circle. The radius is the distance from the center of the circle to any point on its edge. So, to find the area, you square the radius and multiply it by the magical number  $\pi$  (pi), which is approximately 3.14. It's like painting the inside of the circle with a magical brush, filling it with color to reveal its hidden beauty!

Now, let's journey into the realm of circumference. The circumference of a circle is the distance around its edge—the length of its boundary. To find the circumference, you use another enchanting formula:  $C = 2\pi r$ . Here,  $C$  represents the circumference, and  $r$  again represents the radius of the circle. You multiply the radius by 2 and then by  $\pi$  to find the circumference. It's like wrapping a ribbon around the circle, measuring its total length to capture its essence and elegance!

By mastering these formulas, you'll become a circle wizard, able to unlock the secrets of circles and solve geometric puzzles with ease. So, grab your compass and join us on this magical journey to explore the wonders of area and circumference in the enchanting world of circles!

