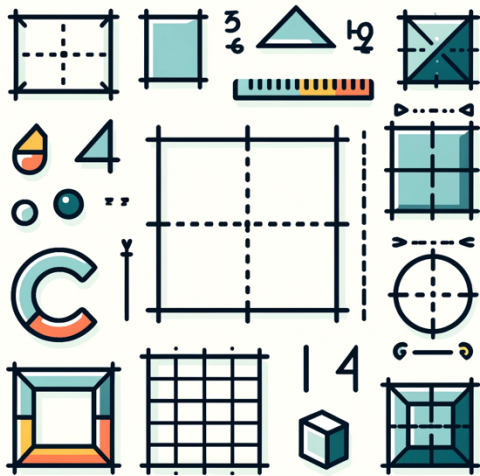


Name _____



Geometric Marvels: Exploring Area and Perimeter

Geometry is like a treasure map, leading us to discover the hidden riches of shapes and measurements. When it comes to common geometric shapes, understanding how to calculate their area and perimeter is like having a magic key to unlock their secrets.

First, let's talk about perimeter. Perimeter is the distance around the outside of a shape. To find the perimeter of a shape, you simply add up the lengths of all its sides. Imagine you're walking along the edge of a shape, tracing its outline with your footsteps—that's finding the perimeter!

Now, let's delve into area. Area is the measure of the space inside a shape. To find the area of a shape, you multiply the length of one side by the length of an adjacent side. It's like filling in the space within the shape with tiles, counting how many tiles fit inside—that's finding the area!

Let's apply these concepts to some common geometric shapes. For rectangles and squares, finding the perimeter is as simple as adding up the lengths of all four sides. To find the area, multiply the length by the width. Circles are a bit trickier. To find the perimeter, you use the formula $2\pi r$ where r is the radius of the circle. And to find the area, you use the formula πr^2 .

Triangles require a different approach. To find the perimeter, add up the lengths of all three sides. And to find the area, use the formula $\frac{1}{2} \times \text{base} \times \text{height}$.

By mastering these techniques, you'll become a geometric wizard, able to unlock the secrets of shapes and measurements with ease. So, grab your compass and ruler, and let's embark on a journey to uncover the wonders of area and perimeter calculation!

