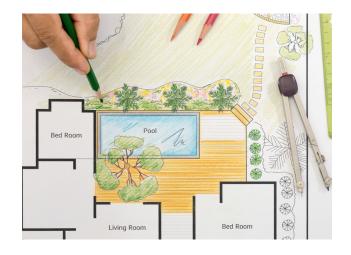
## Perimeter

Where does the diagram illustrate situations that could require me to calculate perimeter?



Perimeter is the distance or length around a shape... such as the rectangular pool.

I'll focus on the rectangular pool for my first perimeter example.

Perimeter is a one-dimensional quantity of a two-dimensional shape.

 How would I explain this statement?





The perimeter of the rectangle was calculated by adding the lengths of all four sides. 10*m* 5*m* 

P = 10m + 5m + 10m + 5mP = 30m

A classmate calculated the perimeter of the same rectangle using a different approach.

10*m* 5*m* 

 How would I explain and demonstrate their approach for calculating the perimeter of the rectangle?

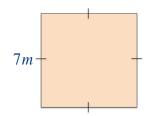
P = 2(1) + 2(w) P = 2(10) + 2(5) P = 20 + 10

P = 30 m

 How is this approach for calculating the perimeter of the rectangle the same as adding all four sides?

Let's apply both solution approaches used for determining the perimeter of the rectangle to a new shape.

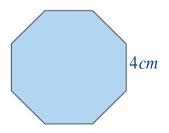
 How would I walk and talk someone through a perimeter solution that involved only addition?



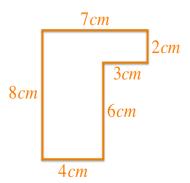
 How could I use multiplication to adjust my previous perimeter solution?



 How would I demonstrate using the previous solution approaches to calculate the perimeter of the octagon?

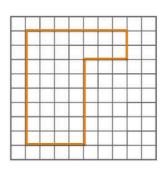


- Why will it not be possible to calculate the perimeter of this new shape using a multiplication approach?
- What potential error could I anticipate when calculating the perimeter of this new shape?
- How would I demonstrate calculating the perimeter?



A grid can also be used to determine the perimeter of a shape.

 How would I explain and demonstrate determining the perimeter using the grid?





## Perimeter - Skills Checklist

☑I can describe a situation where I would need to calculate perimeter

☑I can explain the type of

MI can explain the type of

measurement I'm calculating when I

measurement the perimeter of a shape

determine the perimeter of a shape

☑I can explain and demonstrate how I could calculate the perimeter of a could calculate the perimeter of a shape using addition only

■I can explain and demonstrate how multiplication can sometimes help me multiplication can sometimes a shape calculate the perimeter of a shape







