

Calculating Perimeter and Area Using LEGO Base Plates

Square Formulas:

The perimeter of a square is given by the formula:

$$\text{Perimeter} = \text{side 1} + \text{side 2} + \text{side 3} + \text{side 4}$$

Or

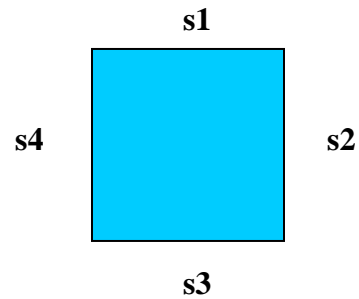
$$\text{Perimeter} = 4s$$

The area of a square is given by the formula:

$$\text{Area} = \text{Width} \times \text{Height}$$

Or

$$\text{Area} = s^2$$



Rectangle Formulas:

The perimeter of a rectangle is given by the formula:

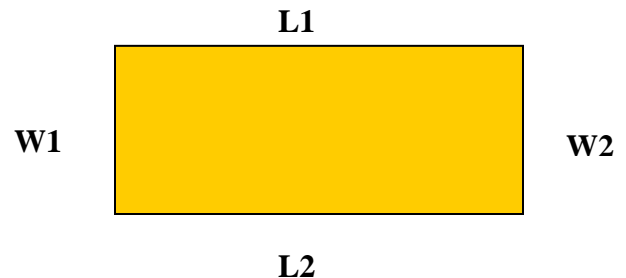
$$\text{Perimeter} = \text{Length} + \text{Length} + \text{Width} + \text{Width}$$

Or

$$\text{Perimeter} = (2L) + (2W)$$

The area of a rectangle is given by the formula:

$$\text{Area} = \text{Length} \times \text{Width}$$



1. 16x16, green LEGO base plate (Note: 1 inch = 1 mile)

- Perimeter in inches:
- Perimeter in miles:
- Area in inches:
- Area in miles:

2. 4x4, black LEGO base plate (Note: 1/4 inch = 1 foot)

- Perimeter in inches:
- Perimeter in feet:
- Area in inches:
- Area in feet:

3. 8x16, cream LEGO base plate (Note: 1/2 inch = 1 yard)

- Perimeter in inches:
- Perimeter in yards:
- Area in inches:
- Area in yards:

4. 4x8, blue LEGO base plate (Note: 1/4 inch = 1 foot)

- Perimeter in inches:
- Perimeter in feet:
- Area in inches:
- Area in feet:

