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Perimeter & Area

Perimeter (P) -> the distance around an enclosed geometric figure

The perimeter can be found by adding all of the sides of the figure together.

Remember: Since you are using a measured distance, UNITS ARE IMPORTANT!!

With perimeter, you only have a single unit.

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Perimeter & Area

Perimeter of Rectangle

$$P = 2(\mathcal{U} + w)$$

If a rectangle has a length of  $\mathcal{L}$  and a width of w units, then the perimeter is twice the sum of the length and width.

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Perimeter & Area

Area (A) -> the measure of the surface enclosed by a geometric figure

When you find the area, you have square units in your answer.

Example: feet · feet = feet<sup>2</sup>

To find the area, you will use multiplication instead of addition.

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Perimeter & Area

Area of Rectangle

 $A = \mathcal{U} \cdot \mathbf{w}$ 

If a rectangle has a length of  $\mathcal U$  and a width of w units, then the area is  $\mathcal U\cdot$  w square units.

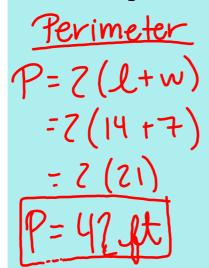
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Perimeter & Area

Example: Find the perimeter and area of each rectangle.

Length: 14 ft

Width: 7 ft



$$\begin{array}{c}
A = 1 \cdot w \\
= 14 \cdot 7 \\
A = 98 \text{ ft}^2
\end{array}$$

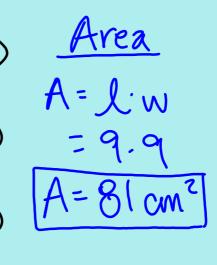
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Perimeter & Area

Example: Find the perimeter and area of each rectangle.

Length: 9 cm

Width: 9 cm



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Perimeter & Area

Example: Find the perimeter and area of each rectangle.

Length: 16 m Width: 7 m

Perimeter

P=7(14w)

-7(14+7)

-2(23)

A=117 m<sup>2</sup>

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Perimeter & Area

Example: Find the perimeter and area of each rectangle.

Length: 11 ft Width: 3 ft

Perimeter

P=2(ltw)

-7(11+3)

-2(114)

P=78ft

Area

A=33ft²

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Perimeter & Area

Find the width.

Example: Find the perimeter and area of

Area. 80yd each rectangle.

Length: 10 yd Width: yd

A - L.W

80 = 10.W

10 10

W=8yd