Area of Rectangles & Squares

Geometry
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Rectangle - Perimeter

- $Perimeter = 2b + 2h$
- $Perimeter = 2(b + h)$
Rectangle - Perimeter

- \( \text{Perimeter} = 2b + 2h \)
  or
- \( \text{Perimeter} = 2(b + h) \)

What is the perimeter of this rectangle?
Rectangle - Perimeter

- \( \text{Perimeter} = 2b + 2h \)
  
or
- \( \text{Perimeter} = 2(b + h) \)

- What is the perimeter of this rectangle?
  
40
Rectangle - Area

- \( \text{Area} = b \cdot h \)
Rectangle - Area

- $\text{Area} = b \cdot h$

- What is the area of this rectangle?
Rectangle - Area

• \( \text{Area} = b \cdot h \)

• What is the area of this rectangle?
  84
Square - Perimeter

• \( \text{Perimeter} = 4 \times \text{side} \)
Square - Perimeter

• \( \text{Perimeter} = 4 \cdot \text{side} \)

• What is the perimeter of this square?
Square - Perimeter

- \( Perimeter = 4 \times side \)

- What is the perimeter of this square? 28
Square - Area

- $\text{Area} = (\text{side})^2$
Square - Area

- Area = (side)²

- What is the area of this square?
Square - Area

• $Area = (side)^2$

• What is the area of this square?

  28
Area Addition

Area of entire shape equals the sum of the areas of all the parts of the shape.
Area Addition

Area of entire shape equals the sum of the areas of all the parts of the shape.

Let’s divide the shape into rectangular parts.
Area Addition

Area of entire shape equals the sum of the areas of all the parts of the shape.

Let’s divide the shape into rectangular parts (there are three rectangles).
Area Addition

Area of entire shape equals the sum of the areas of all the parts of the shape.

\[
\text{Area} = \text{Area of I} + \text{Area of II} + \text{Area of III}
\]
Summary

- **Rectangle**
  - \( \text{Perimeter} = 2b + 2h \) or \( \text{Perimeter} = 2(b + h) \)
  - \( \text{Area} = b \cdot h \)

- **Square**
  - \( \text{Perimeter} = 4 \cdot \text{side} \)
  - \( \text{Area} = (\text{side})^2 \)

- **Area Addition**
  - Total area = sum of individual parts
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