Area of Rectangles & Triangles

Area of a Triangle
\[ \frac{1}{2} \times (b \times h) = A \]
To find the area of a triangle, multiply \( \frac{1}{2} \times \text{base} \times \text{height} \).

Area of a Rectangle
\[ l \times w = A \]
To find the area of a rectangle, multiply \( \text{length} \times \text{width} \).

Area of the shaded triangle:
- \( b = 10 \text{ cm} \)
- \( h = 8 \text{ cm} \)
- \( \frac{1}{2} \times 10 \text{ cm} \times 8 \text{ cm} = 40 \text{ cm}^2 \)

Area of the rectangle:
- \( l = 10 \text{ cm} \)
- \( w = 8 \text{ cm} \)
- \( 10 \text{ cm} \times 8 \text{ cm} = 80 \text{ cm}^2 \)

Find the area of each rectangle and shaded triangle.

a. 
- Area of the square: __________
- Area of the triangle: __________
- Area of the rectangle: __________
- Area of the triangle: __________

b. 
- Area of the rectangle: __________
- Area of the triangle: __________
- Area of the triangle: __________

Challenge: Find the area of the polygon. Use the back if you need work space.
## Area of Rectangles & Triangles

**Area of a Triangle**

\[
\frac{1}{2} \times (b \times h) = A
\]

To find the area of a triangle, multiply \( \frac{1}{2} \times \text{base} \times \text{height} \).

**Area of a Rectangle**

\[
l \times w = A
\]

To find the area of a rectangle, multiply \( \text{length} \times \text{width} \).

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### Find the area of each rectangle and shaded triangle.

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<tbody>
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### Challenge: Find the area of the polygon. Use the back if you need work space.

area of \( \triangle A = (6 \times 6) \times \frac{1}{2} = 18 \text{ m}^2 \)

area of \( \square B = 8 \times 7 = \frac{56 \text{ m}^2}{74 \text{ m}^2} \)