Area of a Rectangle

To find the area of a rectangle, use the formula length x width = area. This formula is often written as \( l \times w = A \).

The rectangle pictured here has a length of 10 cm and a width of 8 cm.

\[
l = 10 \text{ cm} \\
w = 8 \text{ cm} \\
10 \text{ cm} \times 8 \text{ cm} = 80 \text{ cm}^2
\]

Note that the area’s unit is written as \( \text{cm}^2 \). This is said as “square centimeters” or “centimeters squared”.

Find the area of each rectangle.

a. 22 cm \hspace{1cm} 9 cm

b. 14 ft \hspace{1cm} 7 ft

c. 18 km \hspace{1cm} 8 km

d. 10 in. \hspace{1cm} 24 in.

e. 12 mm

f. 5 mi \hspace{1cm} 30 mi

Challenge: Find the area of the polygon. All corners are 90°. Use the back if you need work space.

\[
\text{area of } B = 9 \times 30 = 270 \text{ m}^2 \\
\text{area of } A = 9 \times 10 = 90 \text{ m}^2 \\
360 \text{ m}^2
\]
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f. 5 mi  
   30 mi 

Challenge: Find the area of the polygon. All corners are 90°. Use the back if you need work space.

area of A = 9 \times 10 = 90 \text{ m}^2 
area of B = 9 \times 30 = \frac{270 \text{ m}^2}{360 \text{ m}^2} 

Preview

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