Calculating the area of compound shapes

Stage 1

Split the shape into shapes you can calculate.

Stage 2

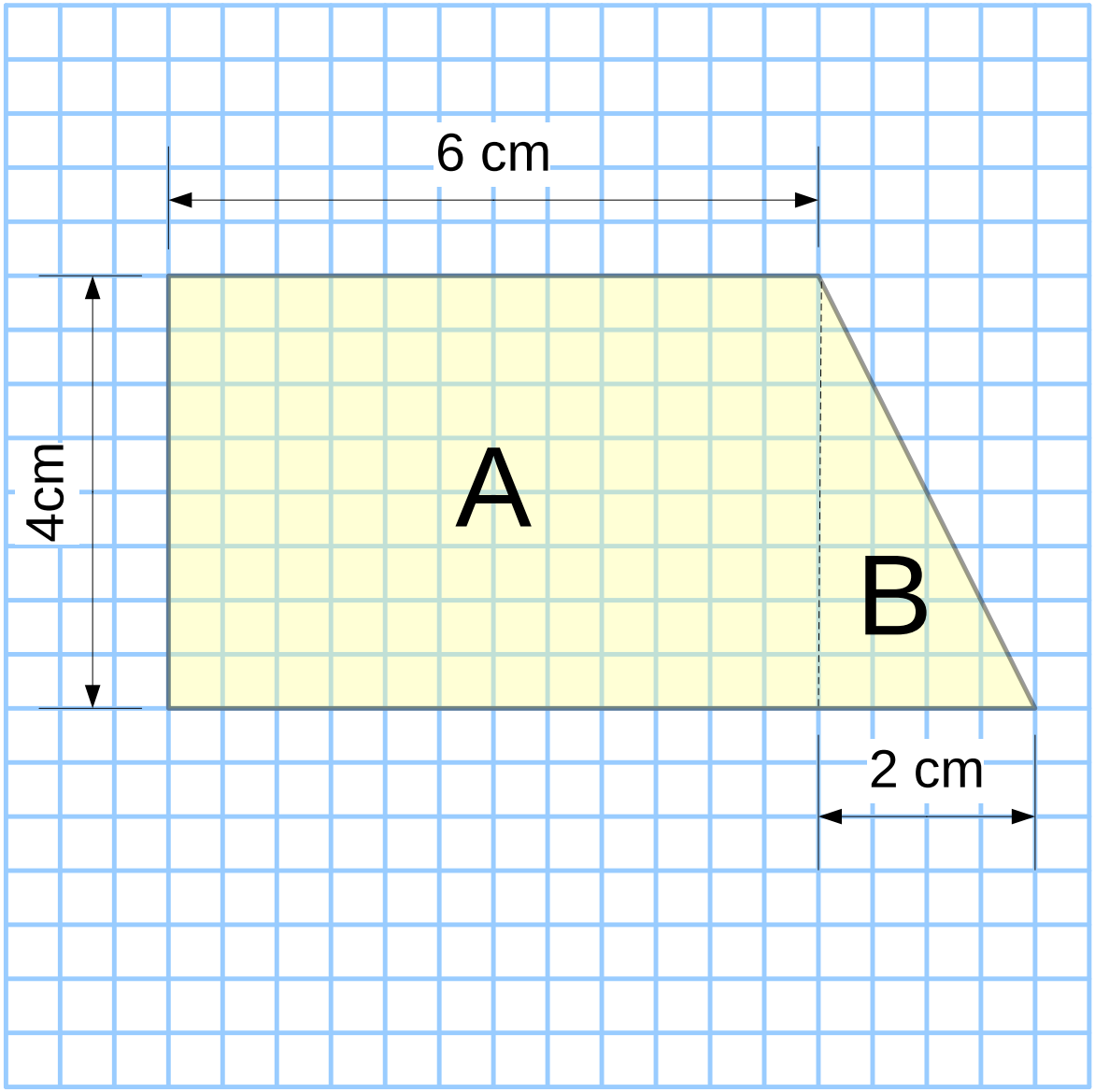
Mark on the lengths of the lines.

Stage 3

Calculate the areas of the shapes into which you have split the larger one.

Stage 4

Add up all the constituent parts to find the whole area.


6 cm
4cm
A
B
2 cm

To Calculate the Area of A

$$Area\ of\ a\ Rectangle = length \times breadth$$

Area of A =lb

= 6 × 4

= 24 cm^2

To Calculate the Area of B

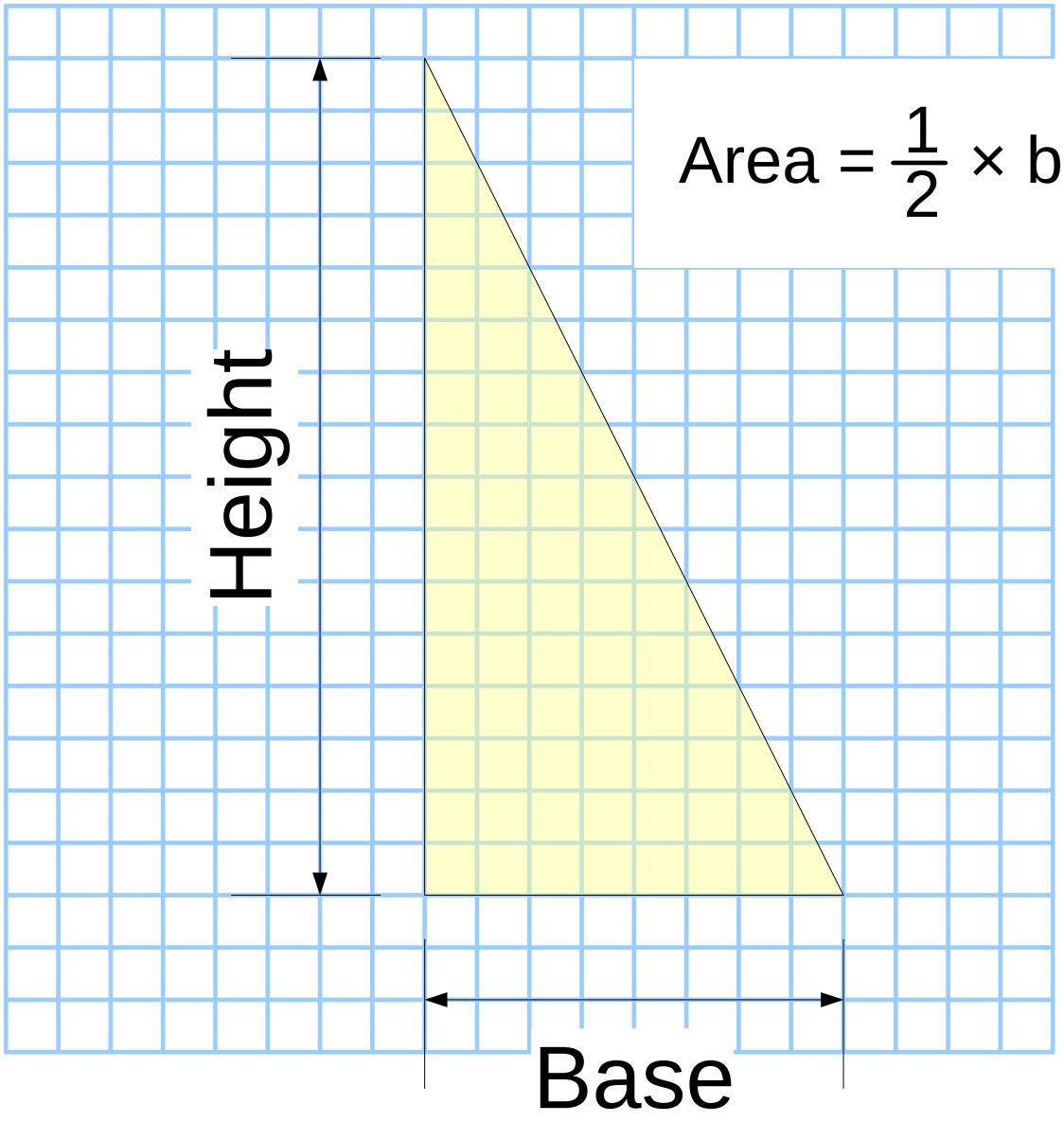
$$Area\ of\ a\ Triangle = \frac{1}{2} \times base \times height$$

Area of B = ½bh

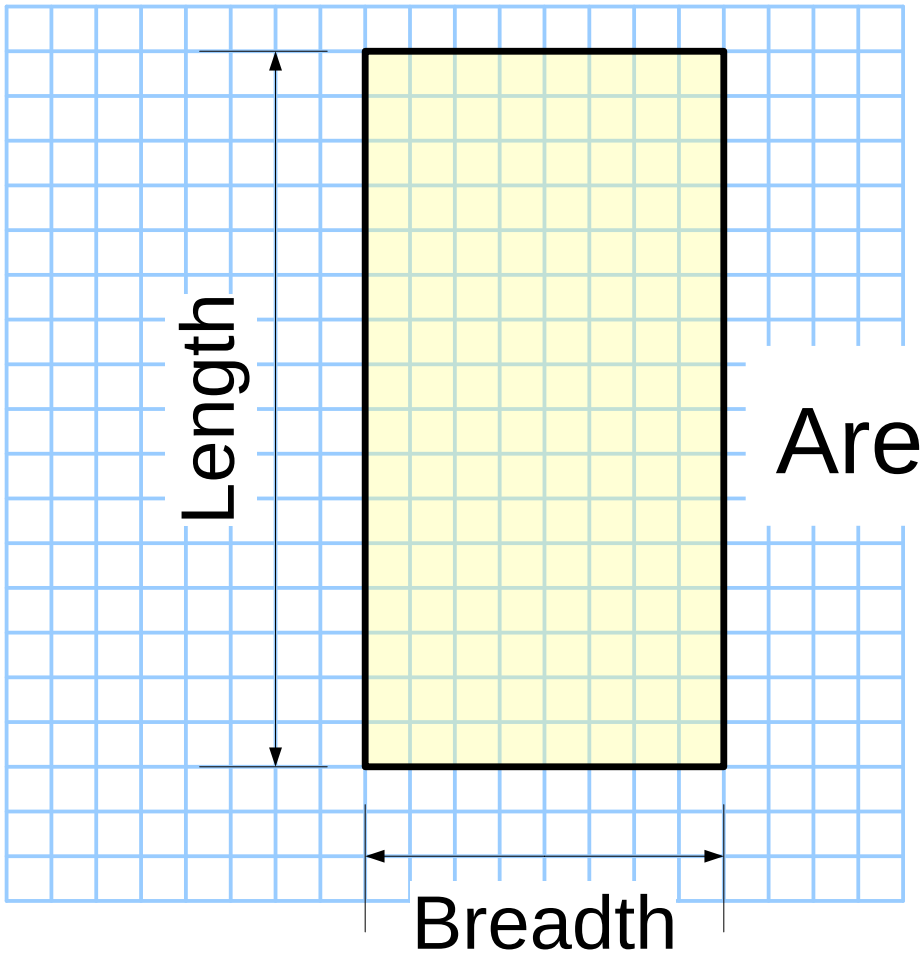
= ½ × 2 × 4

= 4cm^2

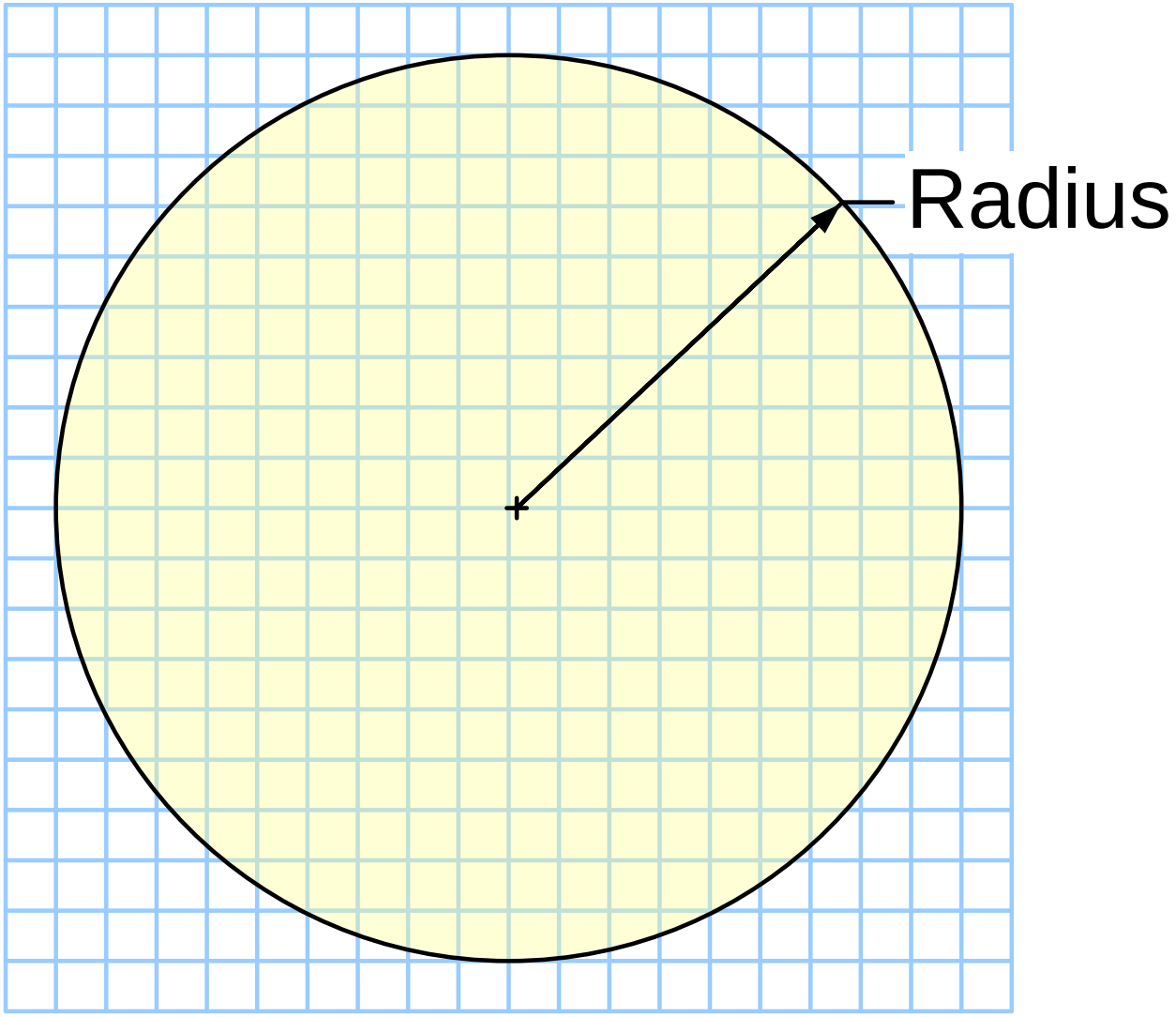
Total Area of Shape = A + B = 24 + 4 = 28cm^2



$$\text{Area} = \frac{1}{2} \times \text{base} \times \text{height}$$

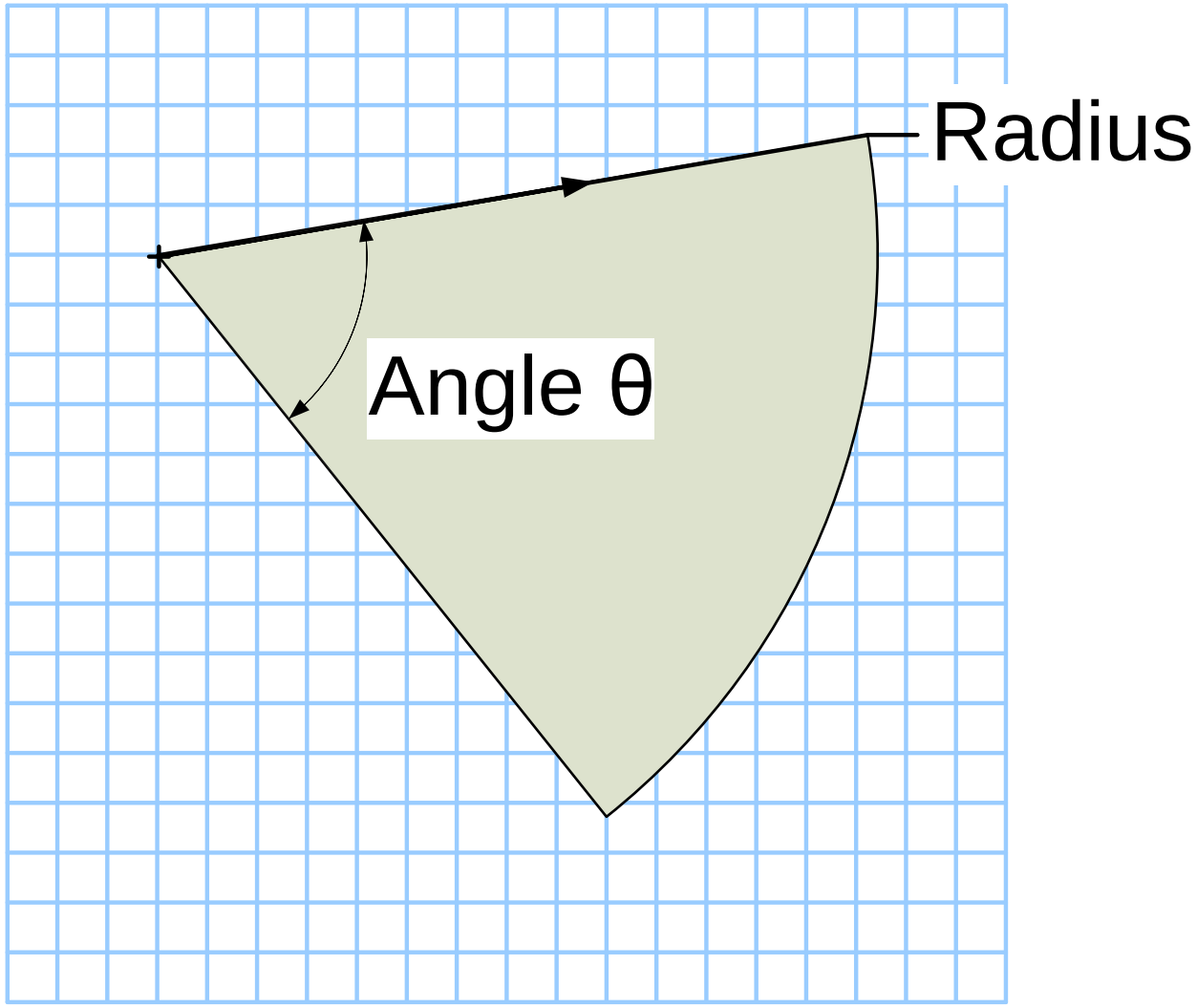


Area = Length × Breadth



$$Area = \pi \times radius^2$$

where π is a special number called Pi and is approximately equal to 3.142



Area of a Sector

$$Area = \frac{\theta}{360}\pi \times radius^2$$

where π is a special number called Pi and is approximately equal to 3.142