

Mathematics

Area of a circle

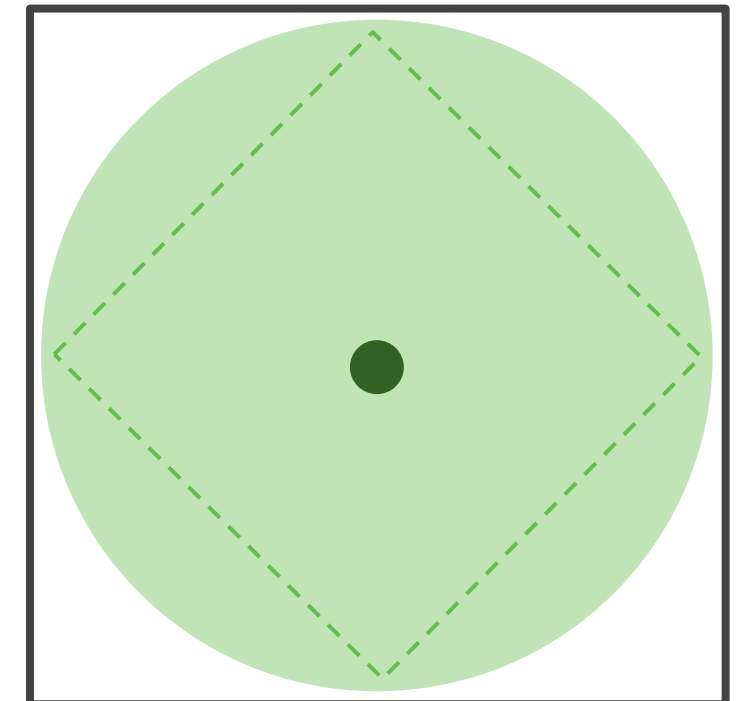
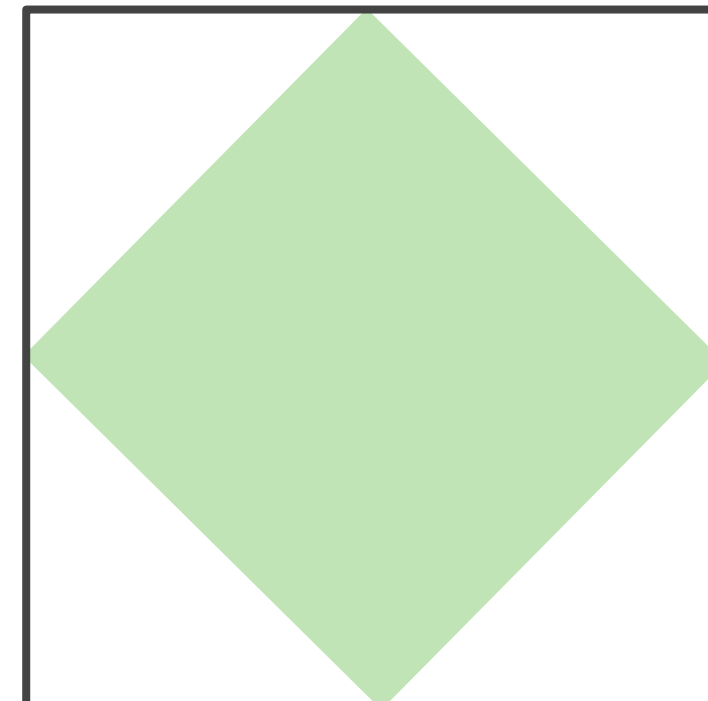
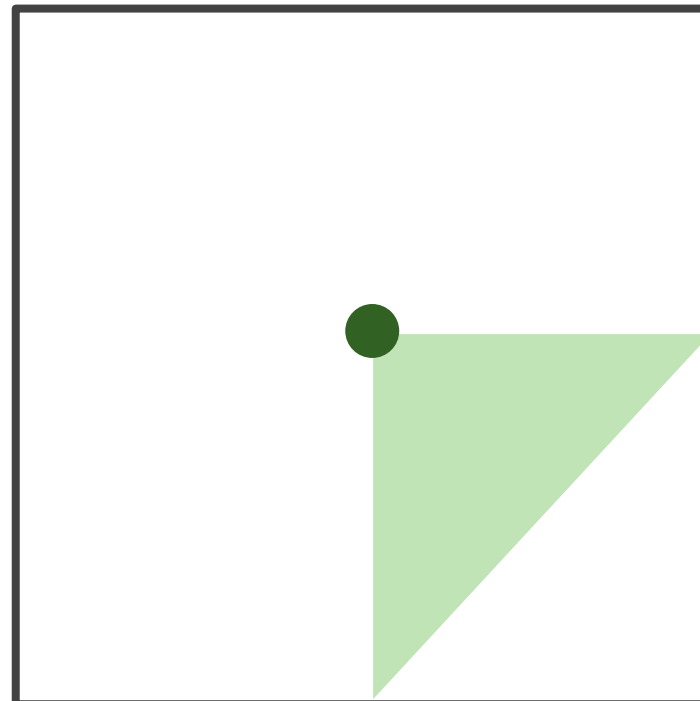
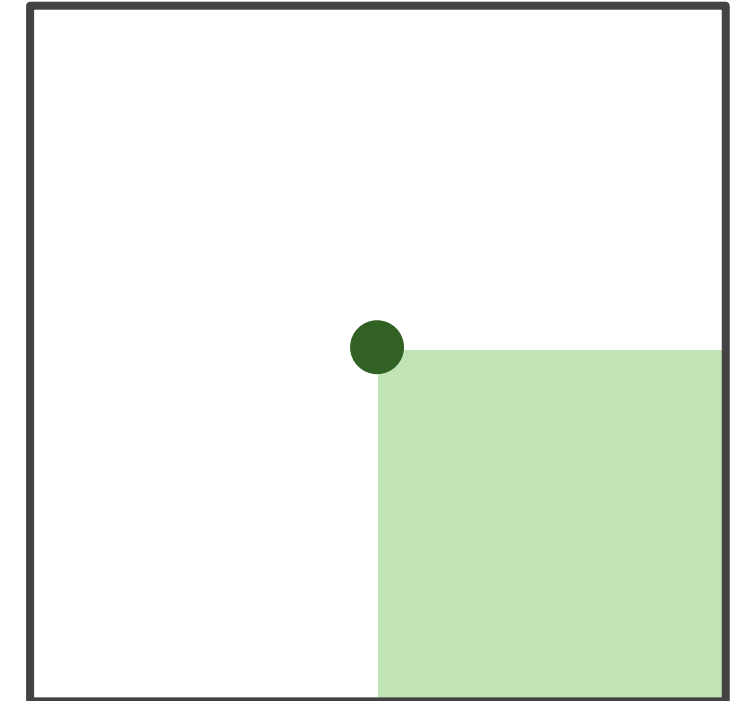
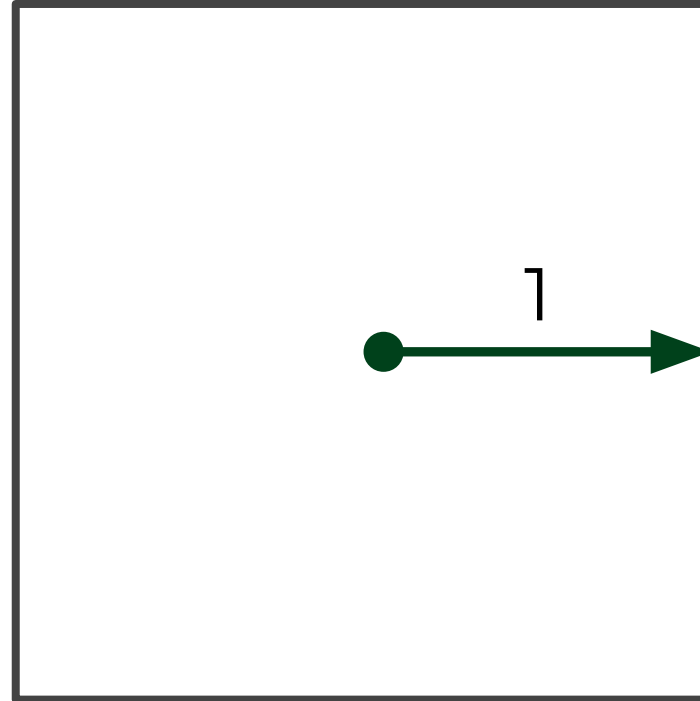
Mr Coward

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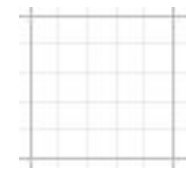
Try this

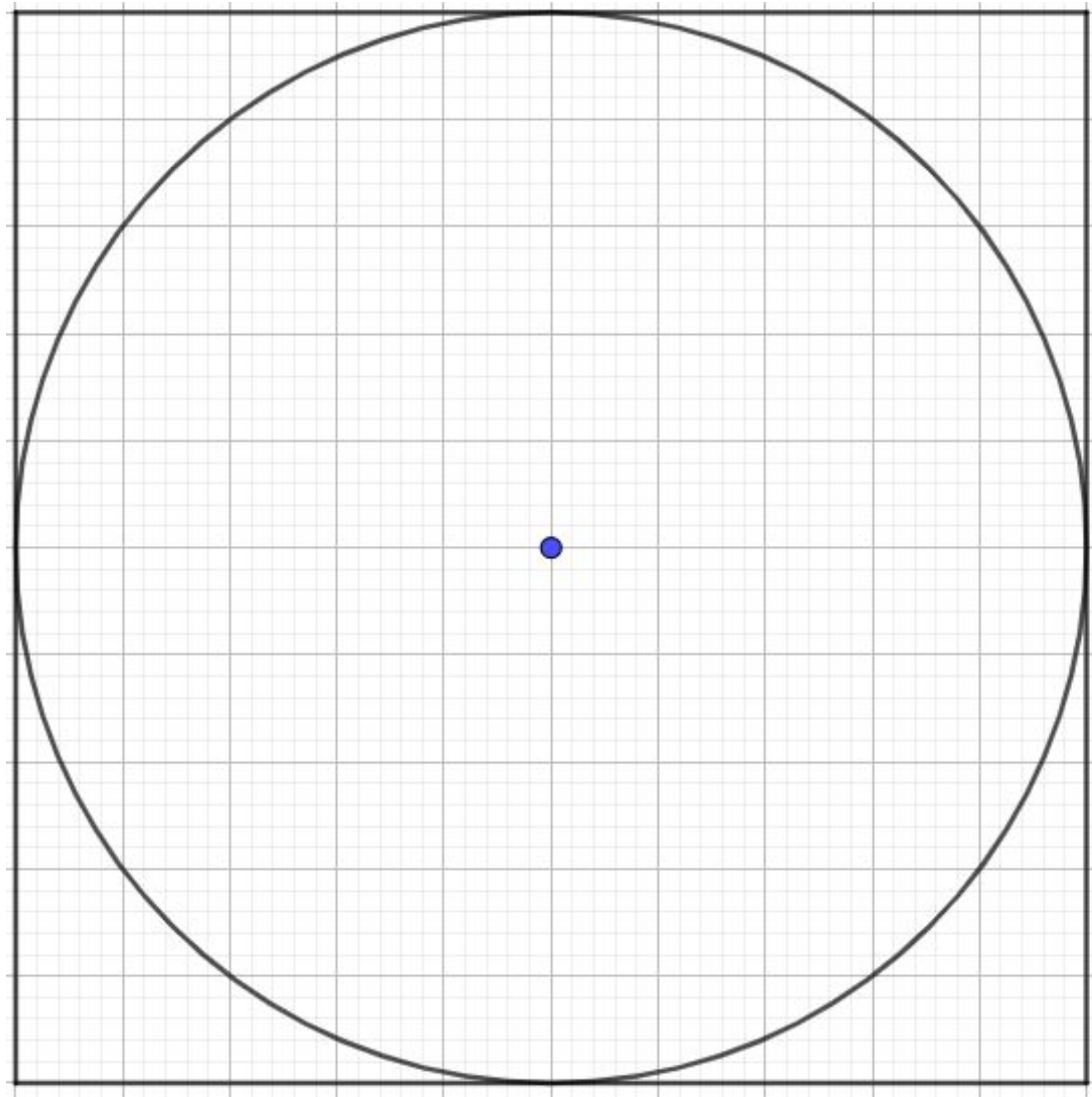
Find the area of the square, then find, or estimate, the area of the shaded space.



Try this

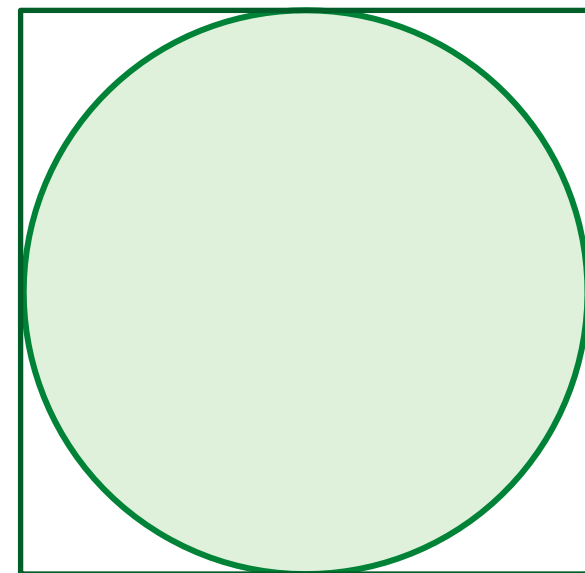
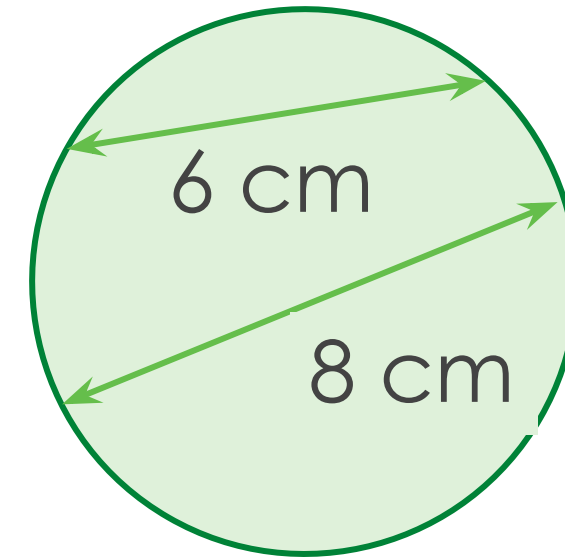
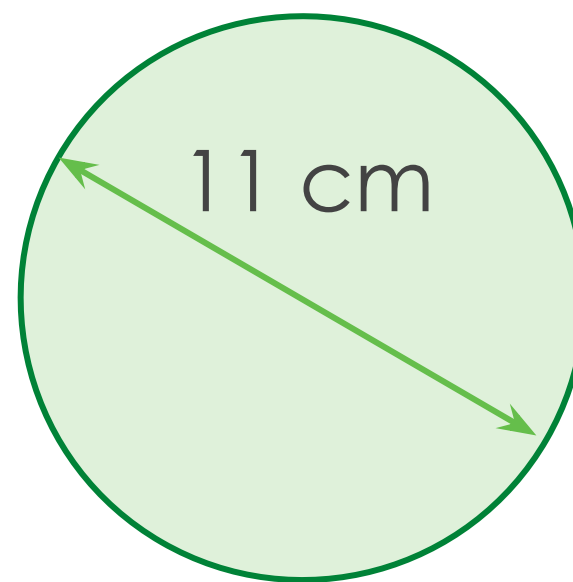
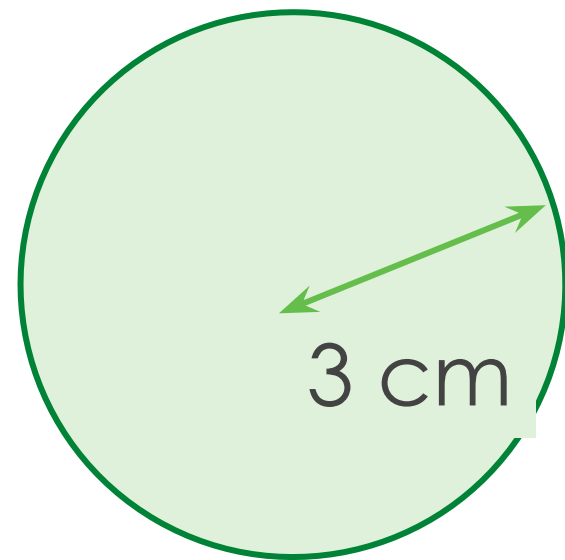
What is the area of this circle, if:

 = 1cm^2

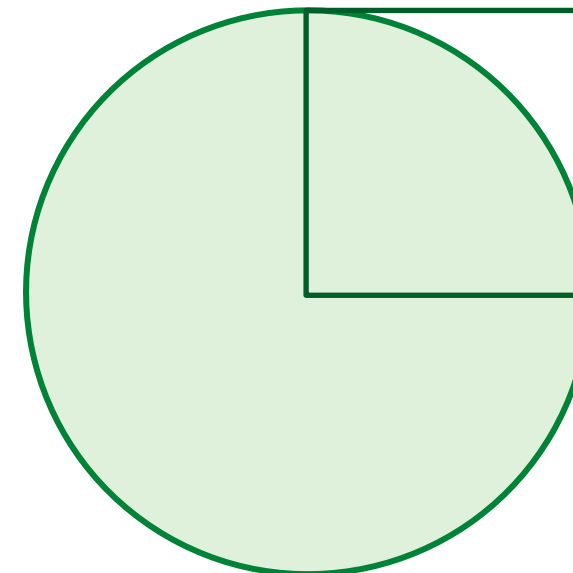


Independent task

1) Find the area of these shapes in exact form.



Area of square
= 81 cm

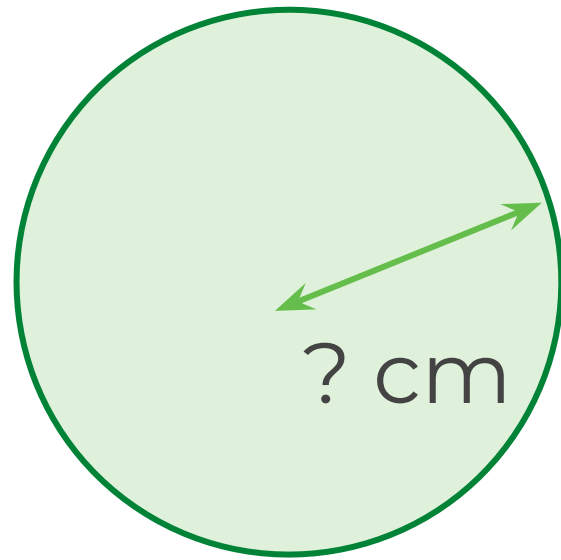


Perimeter of
square = 100 cm

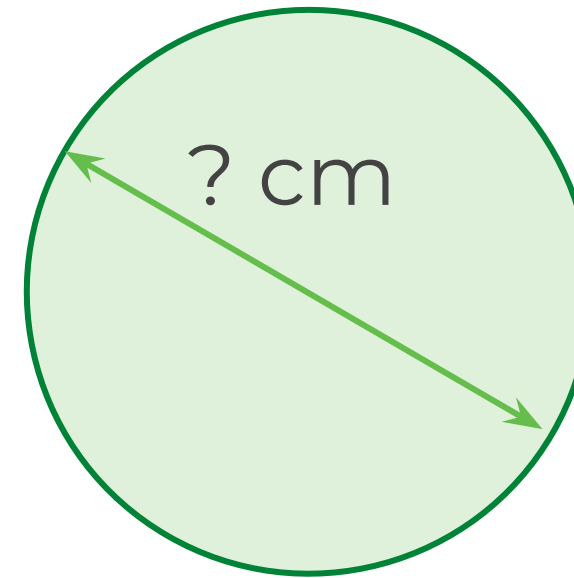


Independent task

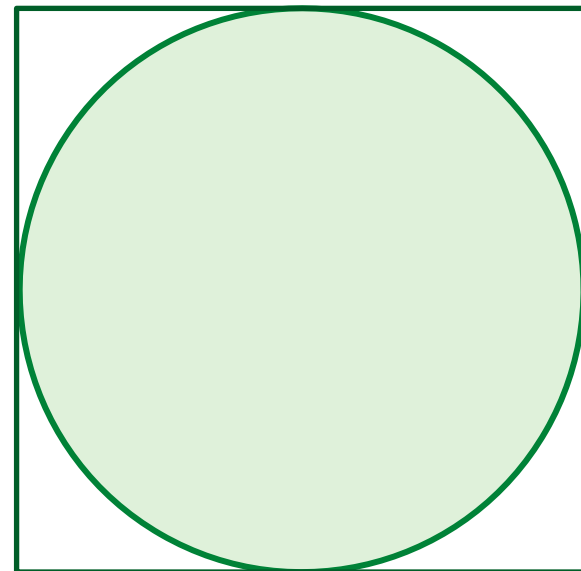
2) Find the missing length of these shapes in exact form.



$$\text{Area} = 225 \pi \text{ cm}^2$$

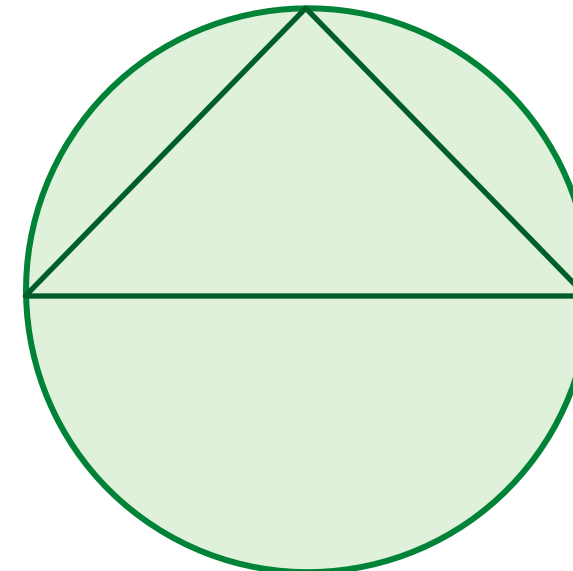


$$\text{Area} = 529 \pi \text{ cm}^2$$



$$\text{Area} = 169 \pi \text{ cm}^2$$

$$\text{Perimeter of square} = ? \text{ cm}$$

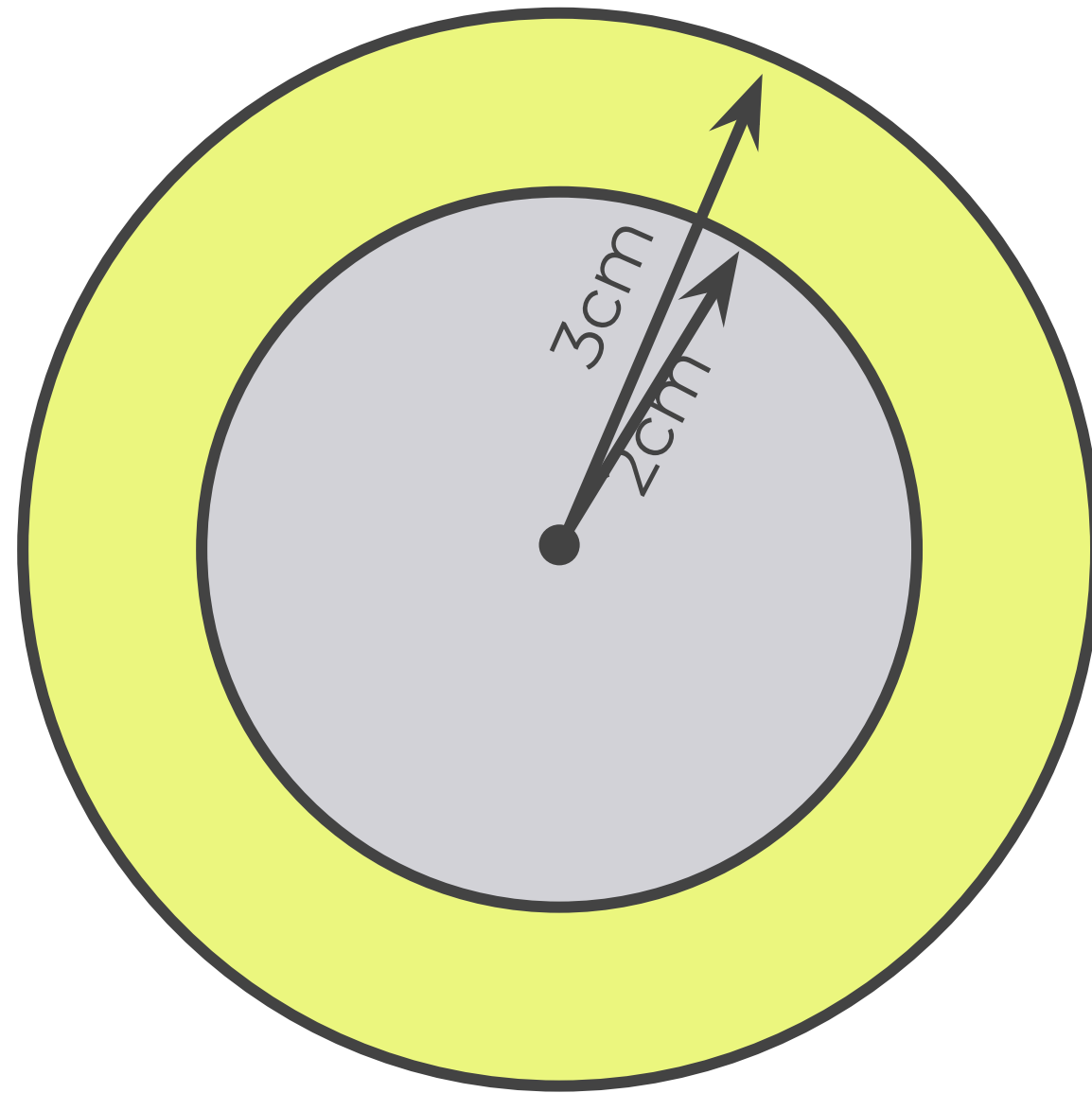


$$\text{Area} = 256 \pi \text{ cm}^2$$

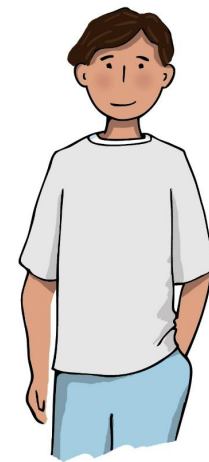
$$\text{Area of triangle} = ? \text{ cm}$$



Explore



The face of this coin is made partly of silver and gold coloured metal. What can you work out?



I can work out the area of the face

I can work out the circumference of the face



I can work out the area silver section



I can work out whether the gold or silver section is bigger

