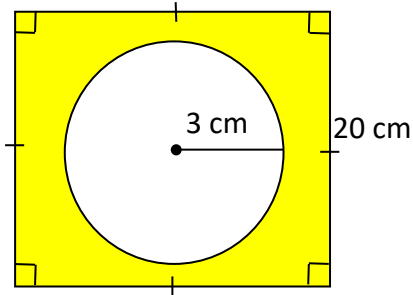


MATHS WORK SHEETS – GEOMETRY – CIRCLES – CALCULATE THE SHADED AREA

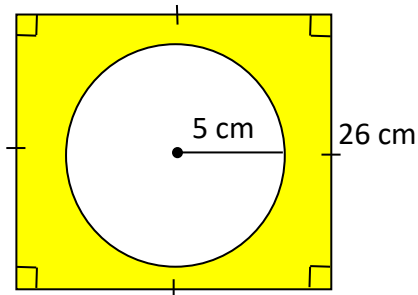
Calculate the shaded area of these shapes.

1.



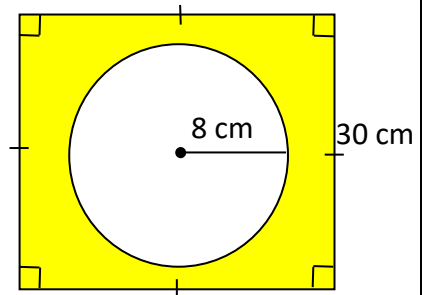
Area:

2.



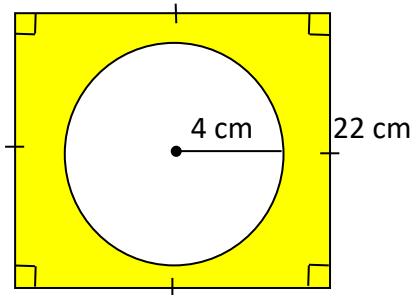
Area:

3.



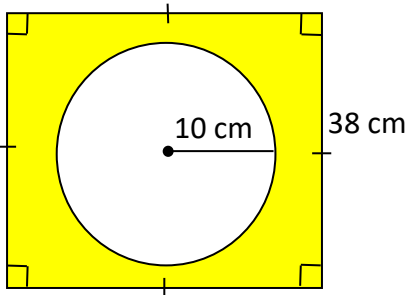
Area:

4.



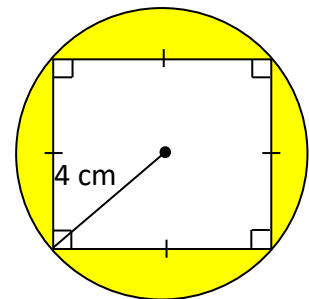
Area:

5.



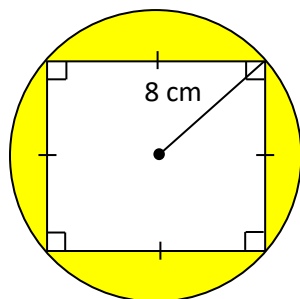
Area:

6.



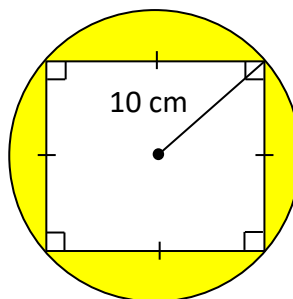
Area:

7.



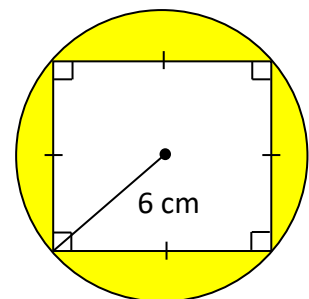
Area:

8.



Area:

9.



Area:

MATHS WORK SHEETS – GEOMETRY – CIRCLES – CALCULATE THE SHADED AREA

Answer Key: $\pi = 3.1416$

Qn 1-5: Area of Square – Area of Circle

$$: a^2 - \pi r^2$$

Qn 6-9: Area of Circle – Area of Square

$$: \pi r^2 - a^2$$

1. $(20 \times 20)^2 - (3.1416 \times 3 \times 3) = 371.73 \text{ cm}^2$
2. 597.46 cm^2
3. 698.94 cm^2
4. 433.73 cm^2
5. 1129.84 cm^2
6. $(3.1416 \times 4 \times 4) - (4 \times 4 \times 1.412 \times 1.412) = 18.37 \text{ cm}^2$ ($\sqrt{2} = 1.412$)
7. 73.46 cm^2
8. 114.79 cm^2
9. 41.32 cm^2

Square inscribed in a circle:

