



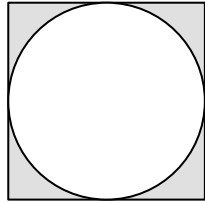
CIRCLES

AREA OF SHADED REGIONS

Ref: G473. **2R1**

A1

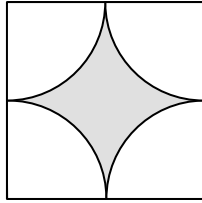
Find the area of the shaded region.



← 3.4 cm →

A2

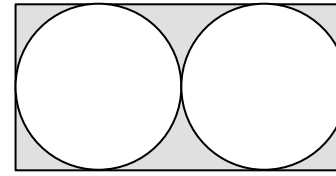
Find the area of the shaded region.



← 7.8 cm →

A3

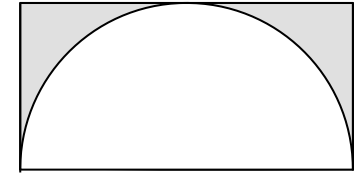
Find the area of the shaded region.



← 12.6 cm →

A4

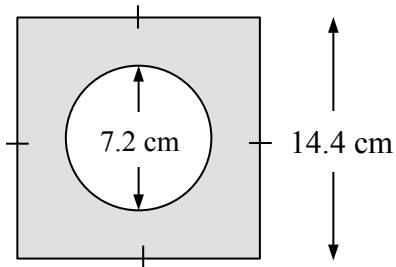
Find the area of the shaded region.



← 7.2 cm →

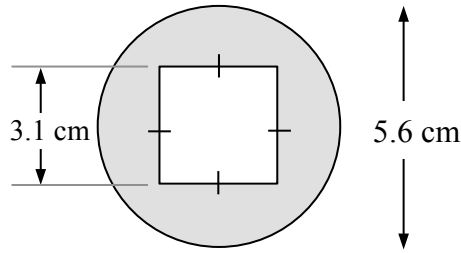
B1

Find the area of the shaded region.



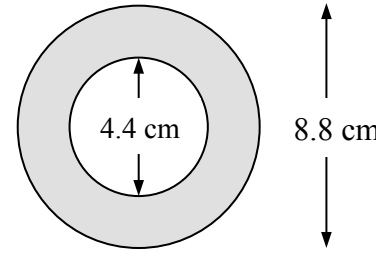
B2

Find the area of the shaded region.



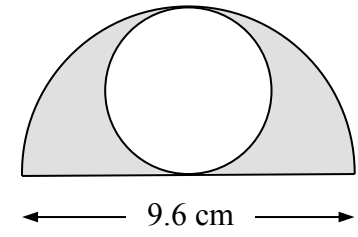
B3

Find the area of the shaded region.



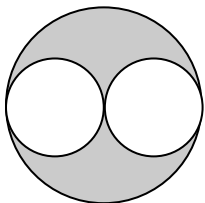
B4

Find the area of the shaded region.



C1

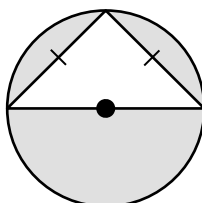
Find the area of the shaded region.



← 8.4 cm →

C2

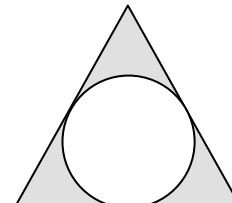
Find the area of the shaded region.



← 6.6 cm →

C3

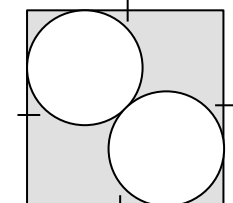
Find the area of the shaded region.



← 5.8 cm →

C4

Find the area of the shaded region.



← 4.2 cm →

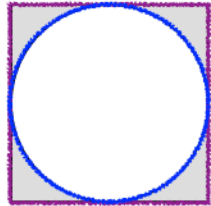


CIRCLES

AREA OF SHADED REGIONS

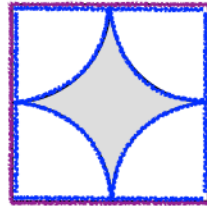
SHADED AREA = OUTSIDE SHAPE - INSIDE SHAPE(S)

A1 $3.4^2 - \pi \times 1.7^2 = 2.48 \text{ cm}^2$



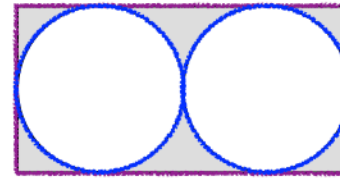
← 3.4 cm →

A2 $7.8^2 - \pi \times 3.9^2 = 13.1 \text{ cm}^2$



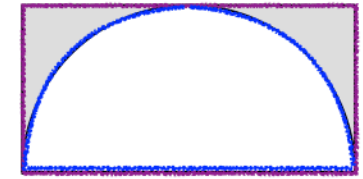
← 7.8 cm →

A3 $12.6 \times 6.3 - 2(\pi \times 3.15^2) = 17.0 \text{ cm}^2$



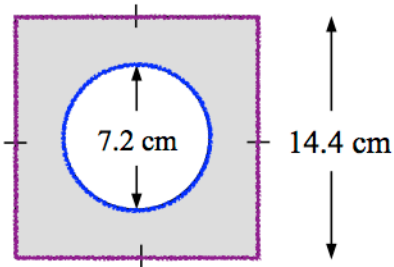
← 12.6 cm →

A4 $7.2 \times 3.6 - \frac{\pi \times 3.6^2}{2} = 5.56 \text{ cm}^2$

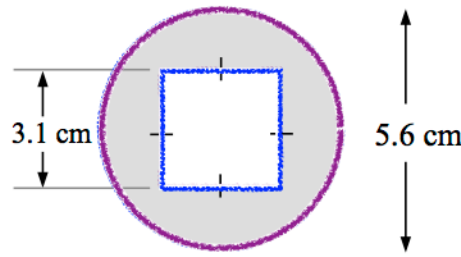


← 7.2 cm →

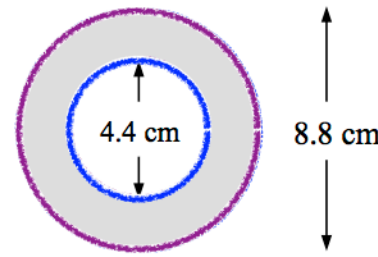
B1 $14.4^2 - \pi \times 3.6^2 = 167 \text{ cm}^2$



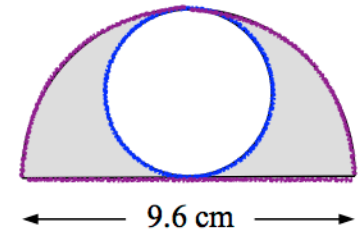
B2 $\pi \times 2.8^2 - 3.1^2 = 15.0 \text{ cm}^2$



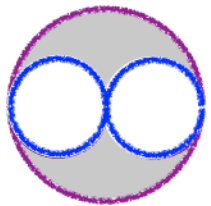
B3 $\pi \times 4.4^2 - \pi \times 2.2^2 = 45.6 \text{ cm}^2$



B4 $\frac{\pi \times 4.8^2}{2} - \pi \times 2.4^2 = 18.1 \text{ cm}^2$

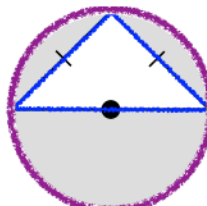


C1 $\pi \times 4.2^2 - 2(\pi \times 2.1^2) = 27.7 \text{ cm}^2$



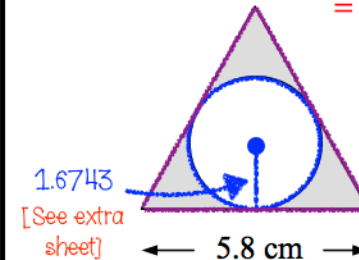
← 8.4 cm →

C2 $\pi \times 3.3^2 - \frac{6.6 \times 3.3}{2} = 23.3 \text{ cm}^2$



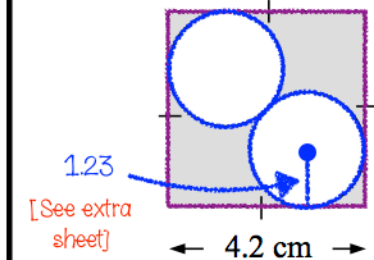
← 6.6 cm →

C3 $\frac{1}{2} \times 5.8^2 \times \sin 60 - \pi \times 1.6743^2 = 5.76 \text{ cm}^2$



1.6743
[See extra sheet]

C4 $4.2^2 - 2(\pi \times 1.23^2) = 8.13 \text{ cm}^2$



1.23
[See extra sheet]