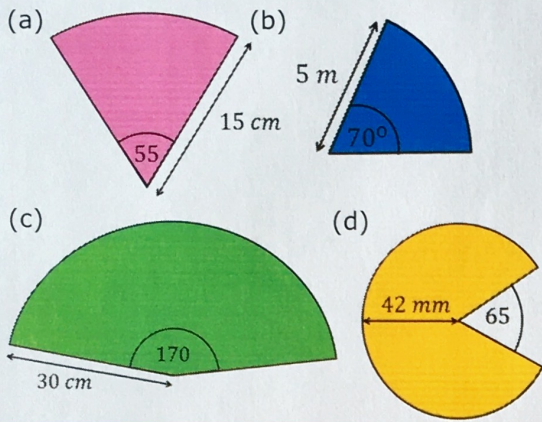


Area and Perimeter of Sectors

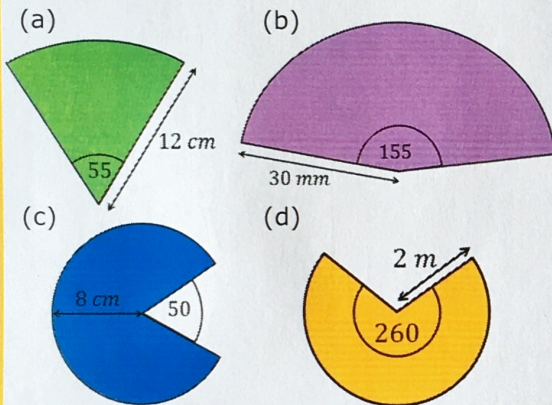
All to 1dp

Find the area of each of these sectors.



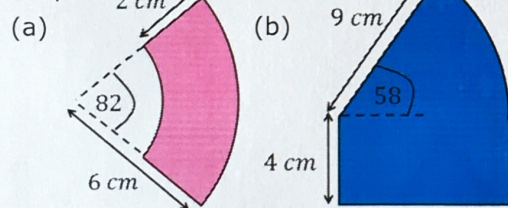
- (a) 108.0 cm^2
 (b) 15.3 m^2
 (c) 1335.2 cm^2
 (d) 4541.2 mm^2

Find the arc length and perimeter of each of these sectors.



- (a) $l = 11.5 \text{ cm}$ $P = 35.5 \text{ cm}$
 (b) $l = 81.2 \text{ mm}$ $P = 141.2 \text{ mm}$
 (c) $l = 43.3 \text{ cm}$ $P = 59.3 \text{ cm}$
 (d) $l = 9.1 \text{ m}$ $P = 13.1 \text{ m}$

Find the area and perimeter of these shapes.



- (a) $A = 14.3 \text{ cm}^2$
 $P = 18.3 \text{ cm}$
 (b) $A = 77.0 \text{ cm}^2$
 $P = 35.1 \text{ cm}$

- (a) A sector has an area of 70 cm^2 and a radius of 8 cm . Find its angle.
 (b) A sector with angle 75° has an area of 30 cm^2 . Find the radius of the sector.
 (c) A sector has a perimeter of 35 cm and a radius of 7 cm . Find its angle.

- (a) 125.3°
 (b) 6.8 cm
 (c) 171.9°