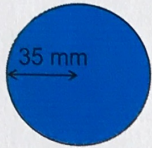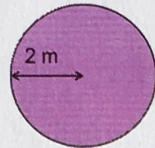## Area of a Circle

Work out the area of each circle, giving your answer to 1 decimal place.

(a)

35 mm

(b)

2 m

(c) A circle with radius 13 cm
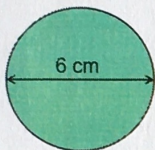(d) A frisbee with radius 16.3 cm

(a) $3848.5 \, mm^2$
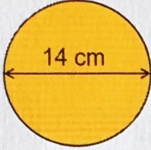(b) $12.6 \, m^2$
(c) $530.9 \, cm^2$
(d) $834.7 \, cm^2$

Find the area of each circle, giving your answer to 1 decimal place.

(a)

6 cm

(b)

14 cm

(c) A circle with a diameter of 45 mm
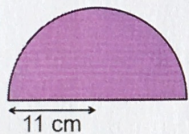(d) A plate with diameter 18 cm

(a) $28.3 \, cm^2$
(b) $153.9 \, cm^2$
(c) $1590.4 \, mm^2$
(d) $254.5 \, cm^2$
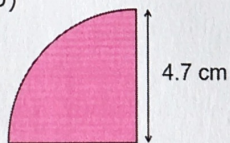
Work out the area of each of these shapes, giving your answers to 1 dp.

(a)

11 cm

(b)

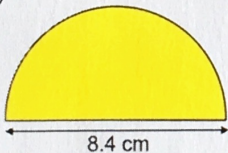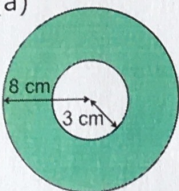4.7 cm

(c)

8.4 cm

(a) $190.1 \, cm^2$
(b) $17.3 \, cm^2$
(c) $27.7 \, cm^2$

Find the areas of these shapes, leaving your answer in terms of π.

(a)

8 cm
3 cm

(b)

20 cm
6 cm
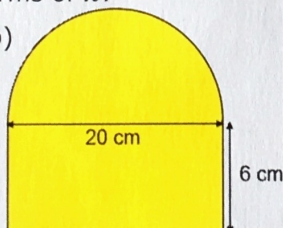
(a) $172.8 \, cm^2$
(b) $277.1 \, cm^2$

Anita says "The area of a circle with radius 8 cm is double the area of a circle with radius 4 cm." Is she right? Explain.

Area when r=8cm is 64π
Area when r=4cm is 16π
This is 4x not double