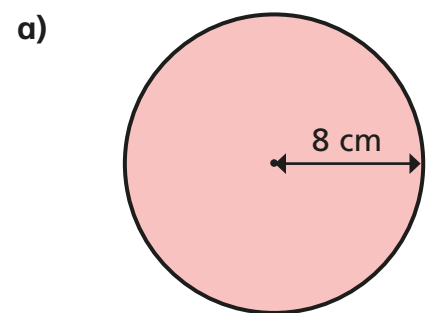
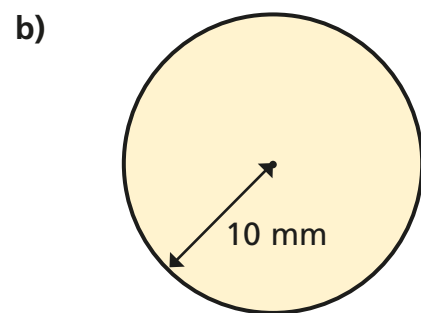


Calculate the area of a circle and parts of a circle without a calculator

- 1 Find the area of each circle.
Give your answers in terms of π .

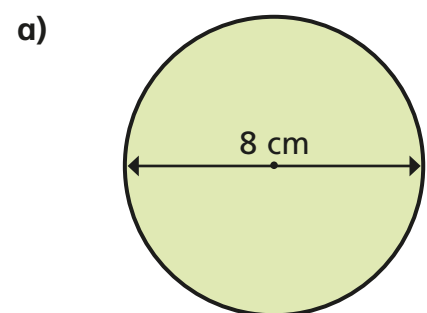


area = _____ cm^2

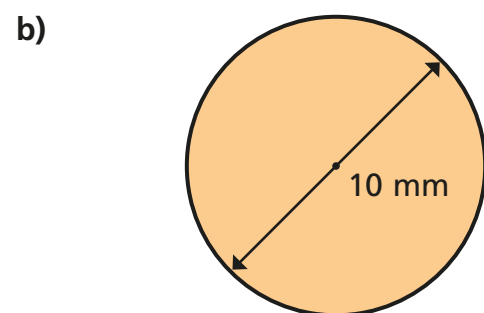


area = _____ mm^2

- 2 Find the area of each circle.
Give your answers in terms of π .



area = _____ cm^2

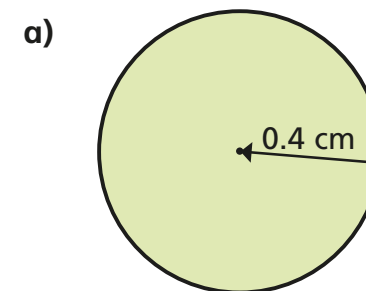


area = _____ mm^2

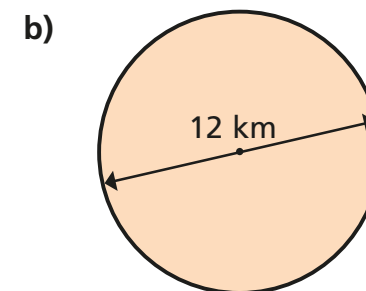
- 3 What was the same and what was different about question 1 and question 2?
Discuss it with a partner.



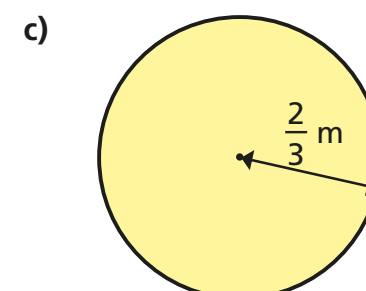
- 4 Find the area of each circle.
Give your answers in terms of π .



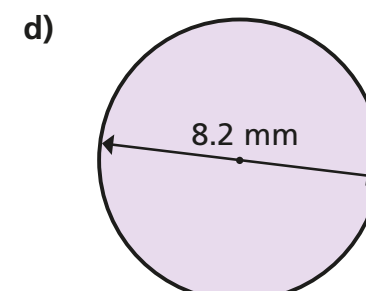
area = _____



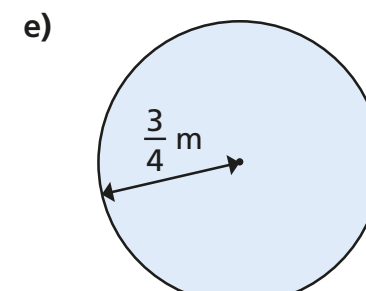
area = _____



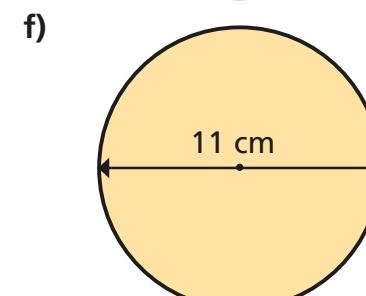
area = _____



area = _____

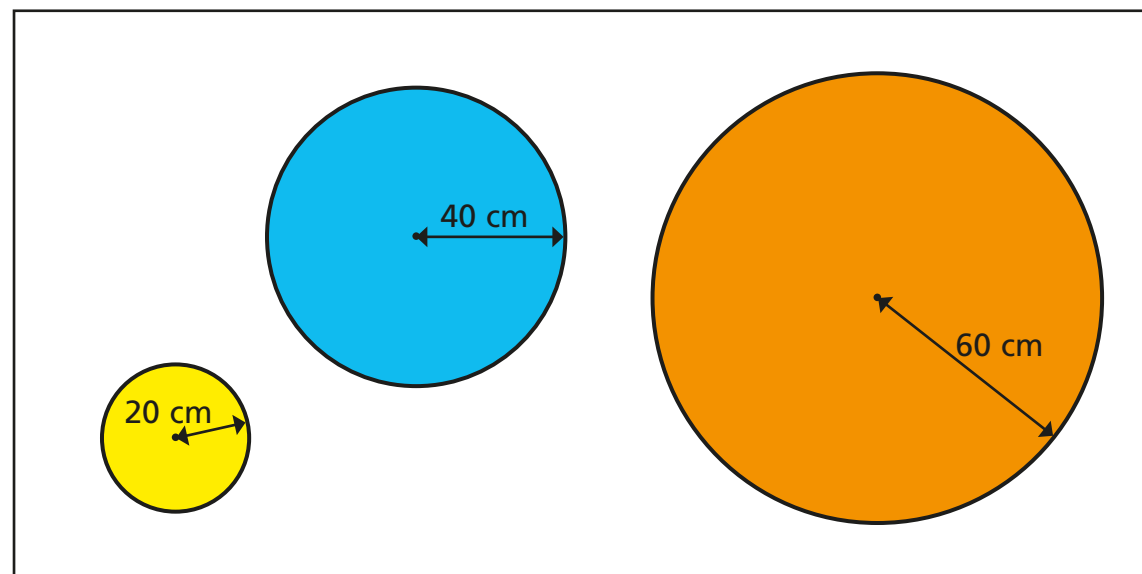


area = _____



area = _____

- 5 Some spots are painted on a wall.



What is the total area of the wall that is covered by paint?

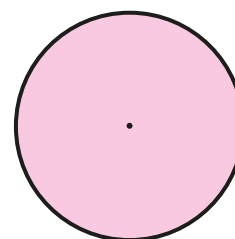
Give your answer in terms of π .

area = _____

- 6 a) Filip finds the area of the circle.

His answer is $64\pi \text{ cm}^2$

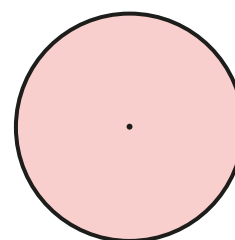
What is the radius of the circle?



radius = cm

- b) The area of this circle is $144\pi \text{ m}^2$

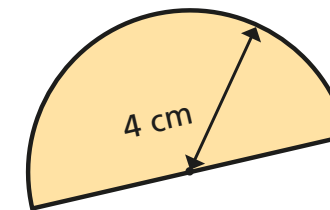
What is the diameter of the circle?



diameter = m

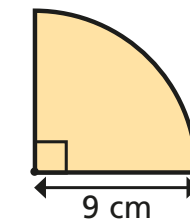
- 7 Work out the area of the parts of circles.
Give your answers in terms of π .

a)



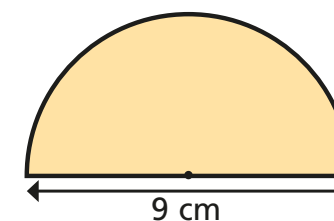
area = _____ cm^2

c)



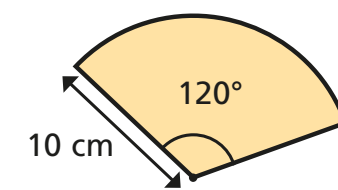
area = _____ cm^2

b)



area = _____ cm^2

d)



area = _____ cm^2

- 8 The area of a semicircle is $50\pi \text{ cm}^2$
What is the radius of the semicircle?

radius = cm

