11.

6 cm
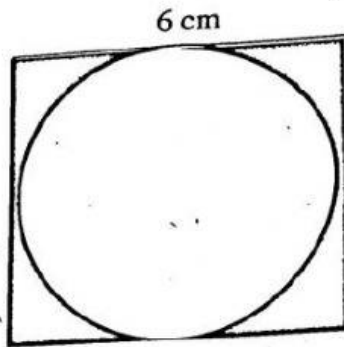

NOT TO SCALE

A square has sides of 6 cm. A circle is placed in the square as shown in the diagram above.

(a)   State the length of the radius of the circle.
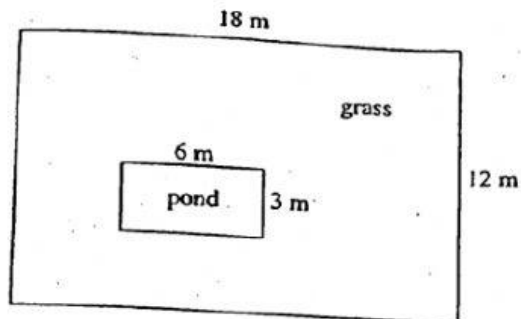
Answer: _____ cm [1]

(b)   Determine the area of the circle using $\pi = 3.14$.

Answer: _____ cm^2 [3]

(c)   Find the area of the shaded region.

Answer: _____ cm^2 [

20. The diagram shows a garden with a pond in it surrounded by grass.

18 m

grass

6 m

pond   3 m

12 m

Calculate

(a) the length of fencing needed to go completely around the pond.

Answer: _____ m [2]

(b) the area of the pond.

Answer: _____ m² [2]

(c) the area of the grassy region.

Answer: _____ m² [2]