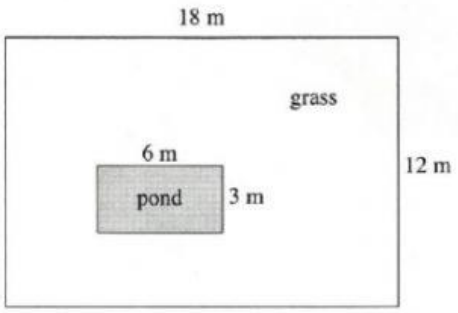
20. The diagram shows a garden with a pond in it surrounded by grass.



Calculate

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

Answer: _____ m [2]

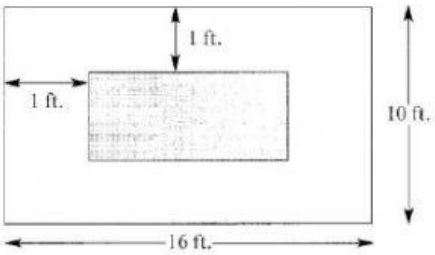
(b) the area of the pond.

Answer: _____ m^2 [2]

(c) the area of the grassy region.

Answer: _____ m^2 [2]

20.



A room is 16 ft. long and 10 ft. wide. A carpet is placed on the floor leaving a border of 1 ft. wide on all four sides.

Calculate:

(a) (i) the area of the floor,

Answer: _____ ^{2} ft. [2]

(ii) the width of the carpet.

Answer: _____ ft. [1]

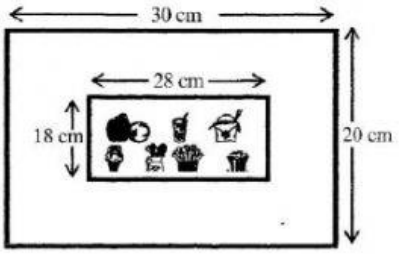
(iii) the length of the carpet.

Answer: _____ ft. [1]

(iv) the area of the carpet.

Answer: _____ ^{2} ft. [1]

15.



NOT TO SCALE

A picture measuring 18 cm by 28 cm is placed in a frame measuring 20 cm by 30 cm. Calculate

(a) the surface area of the picture frame,

Answer: _____ cm^2 [2]

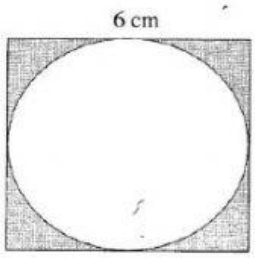
(b) the surface area of the picture,

Answer: _____ cm^2 [2]

(c) the area of the picture frame forming the border around the picture.

Answer: _____ cm^2 [2]

11.



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]

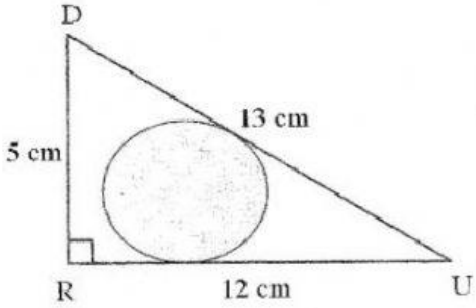
(b) Determine the area of the circle using $\pi = 3.14$.

Answer: _____ cm^2 [3]

(c) Find the area of the shaded region.

Answer: _____ cm^2 [3]

14.



NOT TO SCALE

Calculate

(a) (i) the area of Δ DRU.

Answer: _____ cm^2 [2]

(ii) the area of the circle of radius 2 cm using $\pi = 3.14$.

Answer: _____ cm^2 [2]

(b) the area of the **un-shaded** region.

Answer: _____ cm^2 [1]