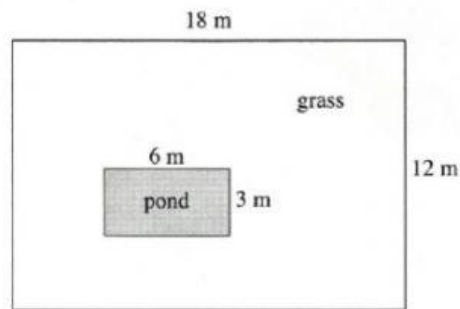


20. The diagram shows a garden with a pond in it surrounded by grass.



Calculate

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

Answer: _____ m [2]

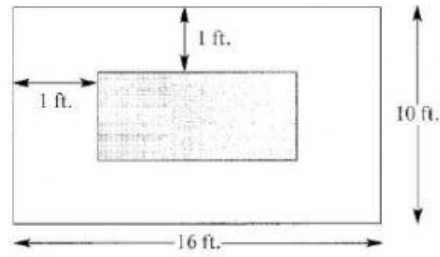
- (b) the area of the pond.

Answer: _____ m² [2]

- (c) the area of the grassy region.

Answer: _____ m² [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]

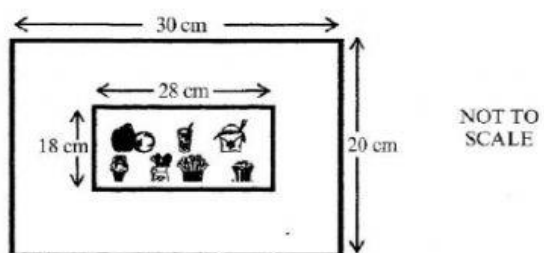
- (iii) the length of the carpet,

Answer: _____ ft. [1]

- (iv) the area of the carpet,

Answer: _____ ² ft. [1]

15.



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]

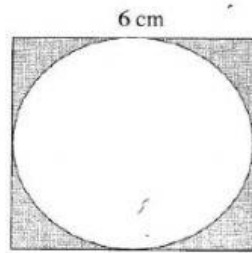
- (b) the surface area of the picture,

Answer: _____ cm^2 [2]

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

Answer: _____ cm^2 [2]

11.



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]

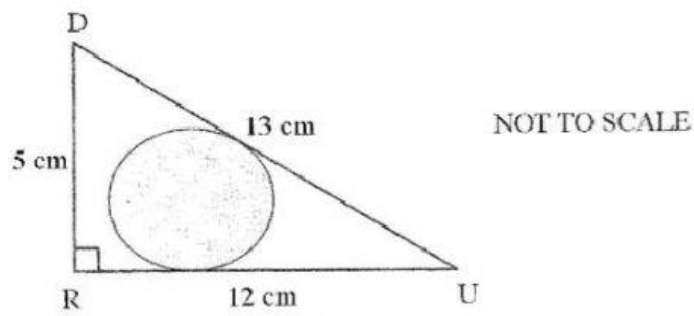
- (b) Determine the area of the circle using $\pi = 3.14$.

Answer: _____ cm^2 [3]

- (c) Find the area of the shaded region.

Answer: _____ cm^2 [3]

14.



Calculate

- (a) (i) the area of $\triangle DRU$.

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]