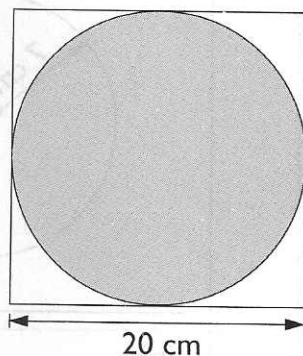
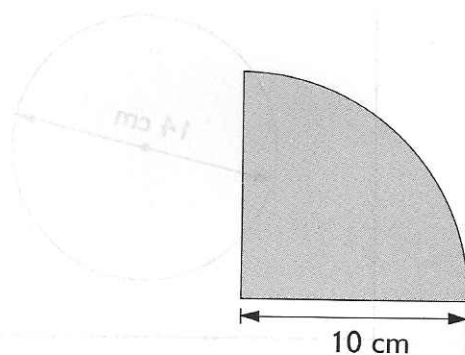


## EXERCISE 13

1. The figure shows a circle within a square. Find the area of the circle.  
(Take  $\pi = 3.14$ )



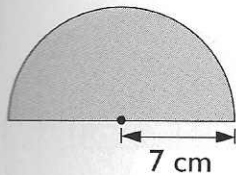
2. The figure shows a cardboard which has a shape of a quarter circle. Find its area. (Take  $\pi = 3.14$ )



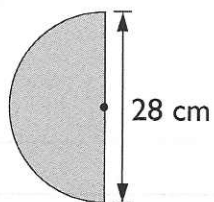
Find the area of each semicircular shape.

Take  $\pi = \frac{22}{7}$

(d)



(b)

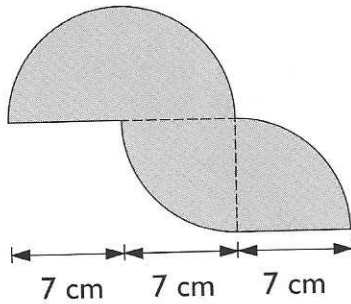


## EXERCISE 14

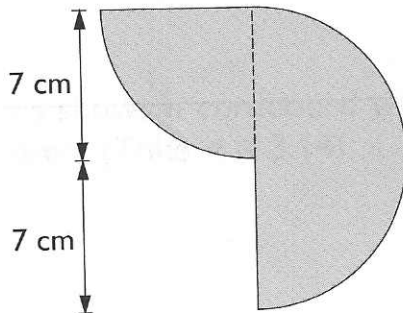
1. The following figures are made up of semicircles and quarter circles.

Find the area of each figure. (Take  $\pi = \frac{22}{7}$ )

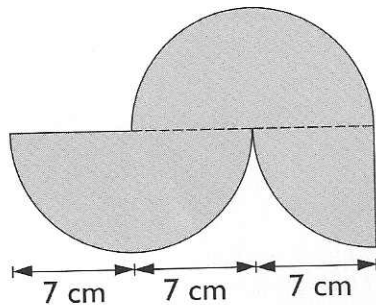
(a)



(b)

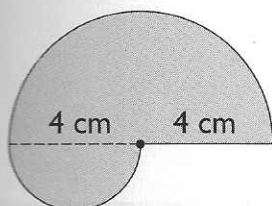


(c)

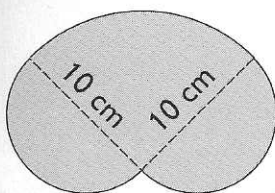


The following figures are made up of semicircles and quarter circles. Find the area of each figure in terms of  $\pi$ .

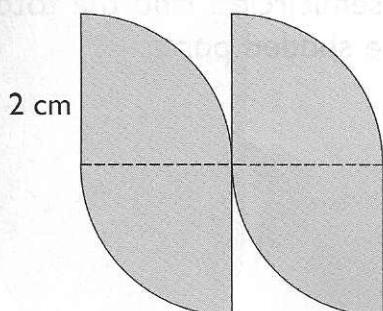
(a)



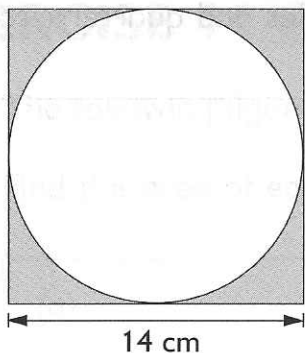
(b)



(c)

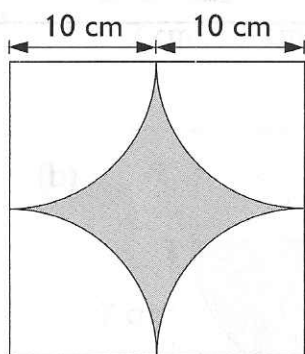


3.



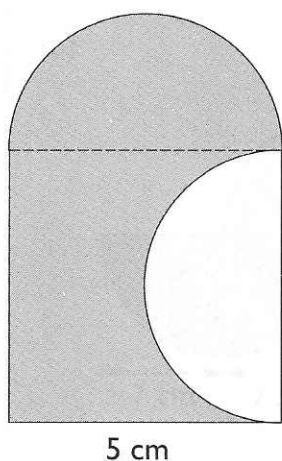
The figure shows a square and a circle. Find the total area of the shaded parts. (Take  $\pi = \frac{22}{7}$ )

4.



The figure shows a square and 4 quarter circles. Find the area of the shaded part. (Take  $\pi = 3.14$ )

5.

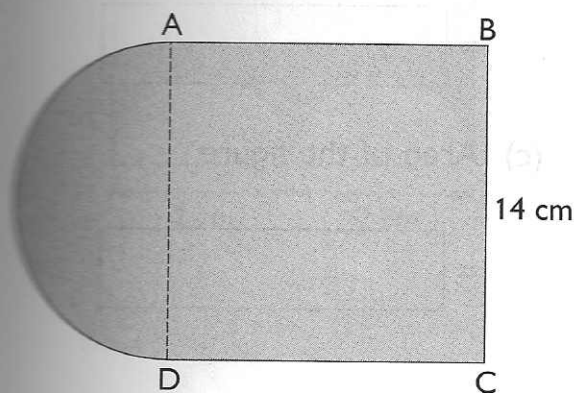


The figure shows a square and 2 semicircles. Find the total area of the shaded parts.

## EXERCISE 15

Write the answers in the boxes.

- 1 The figure is made up of a square and a semicircle. (Take  $\pi = \frac{22}{7}$ )



- (a) Area of the semicircle

=

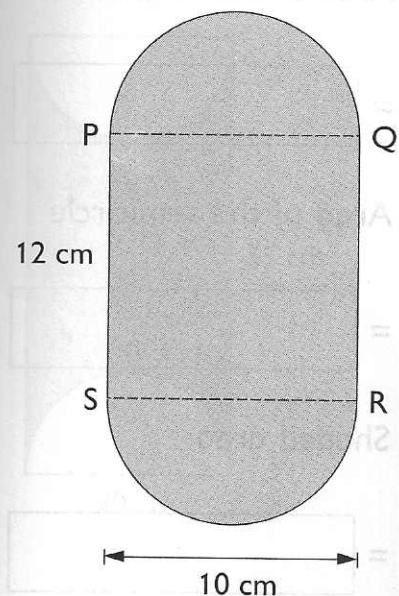
- (b) Area of square ABCD

=

- (c) Area of the figure

=

- 2 The figure is made up of a rectangle and two semicircles. (Take  $\pi = 3.14$ )



- (a) Area of the two semicircles

=

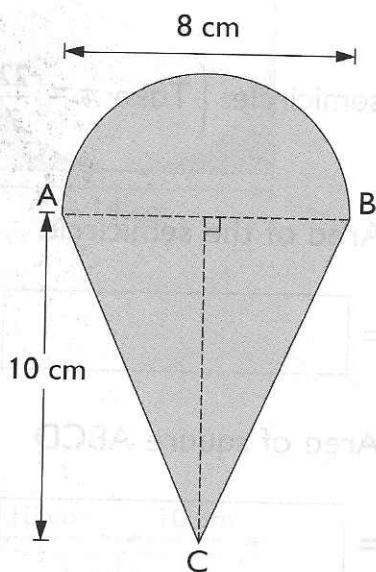
- (b) Area of rectangle PQRS

=

- (c) Area of the figure

=

3. The figure is made up of a triangle and a semicircle. (Take  $\pi = 3.14$ )



- (a) Area of the semicircle

=

- (b) Area of triangle ABC

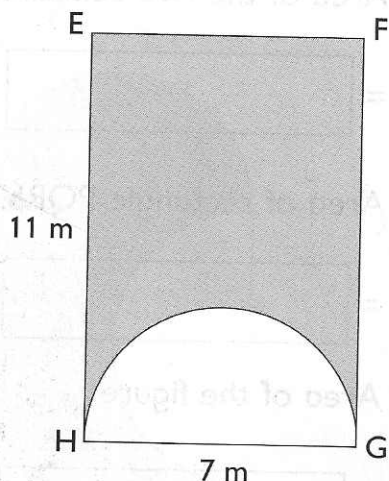
=

- (c) Area of the figure

=

4. The figure shows a rectangle and a semicircle.

(Take  $\pi = \frac{22}{7}$ )



- (a) Area of rectangle EFGH

=

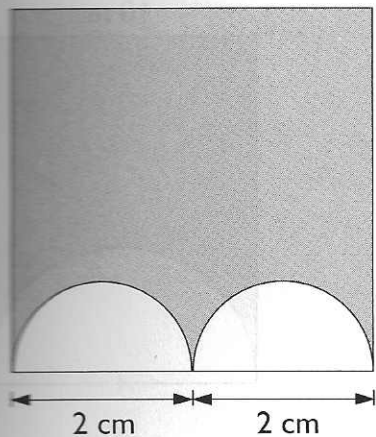
- (b) Area of the semicircle

=

- (c) Shaded area

=

5. The figure shows a square and two semicircles.  
(Take  $\pi = 3.14$ )



(a) Area of the square

=

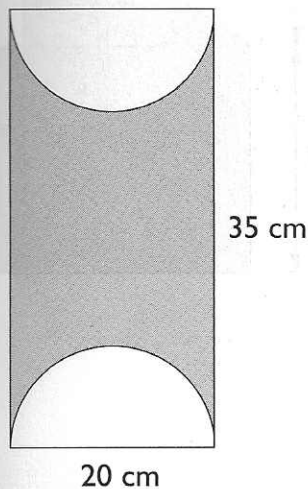
(b) Area of the two semicircles

=

(c) Shaded area

=

6. The figure shows a rectangle and two semicircles.  
(Take  $\pi = 3.14$ )



(a) Area of the rectangle

=

(b) Area of the two semicircles

=

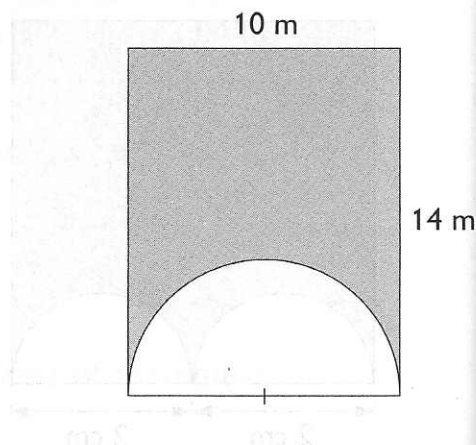
(c) Shaded area

=

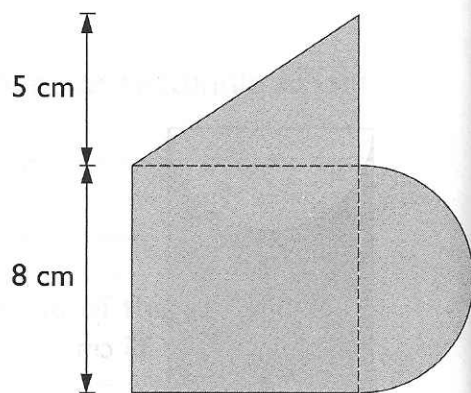


## EXERCISE 16

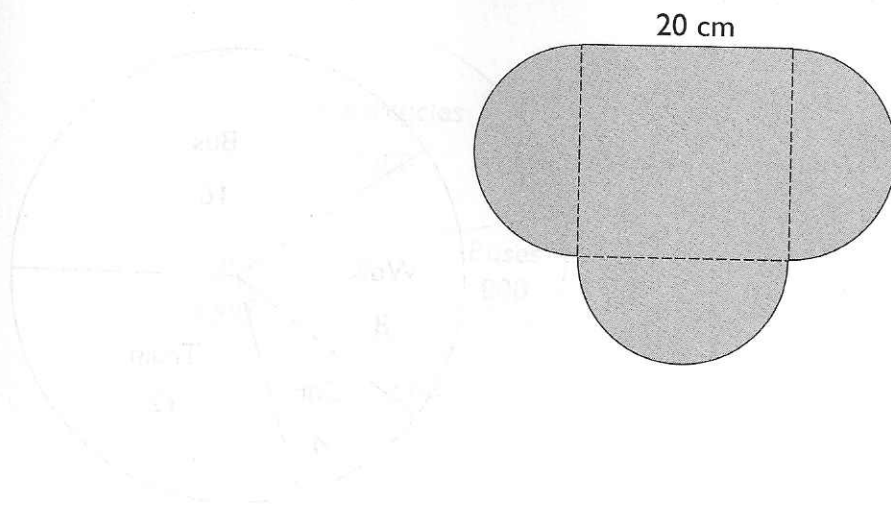
- The figure shows a rectangle and a semicircle. Find the perimeter of the shaded part. (Take  $\pi = 3.14$ )



- The figure is made up of a square, a semicircle and a triangle. Find its area. (Take  $\pi = 3.14$ )



3. The figure is made up of a square and 3 semicircles. Find its area and perimeter. (Take  $\pi = 3.14$ )



4. The figure shows a square, a semicircle and a quarter circle. Find the area and perimeter of the shaded part. (Take  $\pi = 3.14$ )

