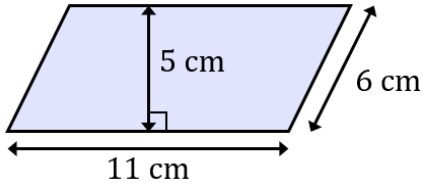
Perimeter and Area

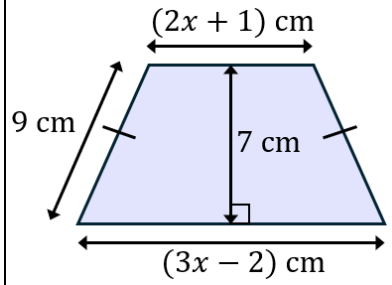
(a)

Find the area of the shape.



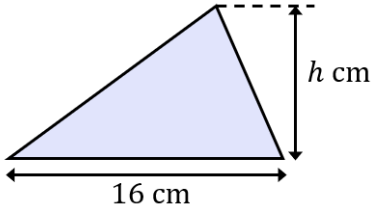
(b)

Find an expression for the perimeter of the shape.



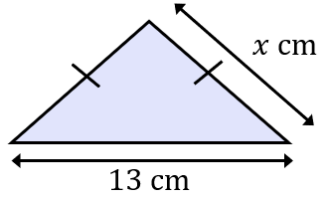
(c)

The area of the triangle is $72\ \text{cm}^2$. Find the value of h.



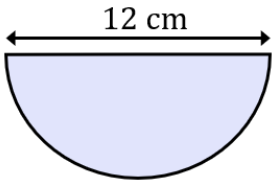
(d)

The perimeter of the triangle is equal to the perimeter of a square with side length $8\ \text{cm}$. Find the value of x.



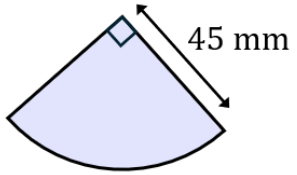
(e)

Find the area of the semi-circle, giving your answer in terms of π.



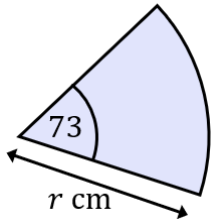
(f)

Find the perimeter of the shape shown, giving your answer correct to 3 significant figures.



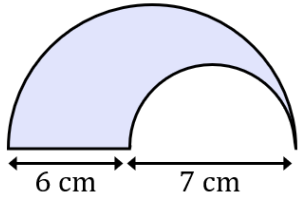
(g)

The area of the sector is $43\ \text{cm}^2$. Find its radius correct to 1 decimal place.



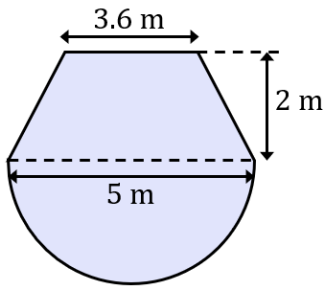
(h)

Find the perimeter of the shape shown, giving your answer correct to 1 decimal place.



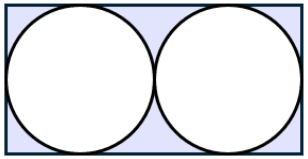
(i)

The diagram shows a plan of Anum's lawn. She wants to lawn seed across the lawn. One box of lawn seed covers $2\ \text{m}^2$ and costs £7.85. Work out how much Anum will need to spend.



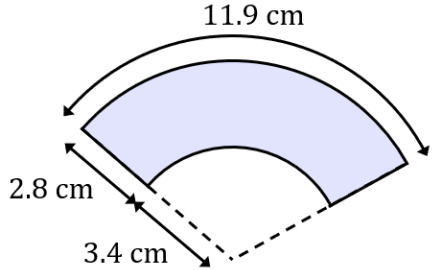
(j)

Two identical circles are enclosed in a rectangle. The radius of the circle is x cm. Given that the shaded area is $40\ \text{cm}^2$, find the value of x to 1 decimal place.



(k)

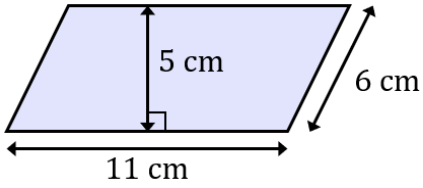
Find the area of the shaded region correct to 3 significant figures.



Perimeter and Area

(a)

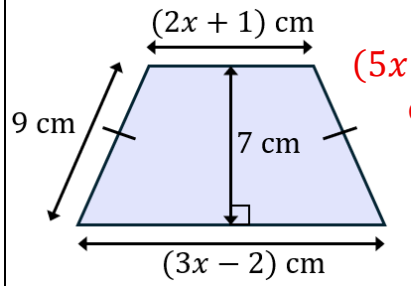
Find the area of the shape.



$55\ \text{cm}^2$

(b)

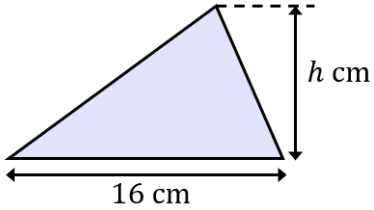
Find an expression for the perimeter of the shape.



$(5x + 17)$ cm

(c)

The area of the triangle is $72\ \text{cm}^2$. Find the value of h.

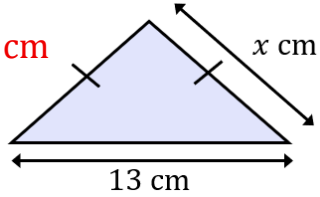


$h = 9$

(d)

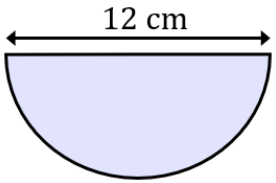
The perimeter of the triangle is equal to the perimeter of a square with side length $8\ \text{cm}$. Find the value of x.

9.5 cm



(e)

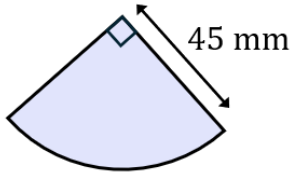
Find the area of the semi-circle, giving your answer in terms of π.



$18\pi\ \text{cm}^2$

(f)

Find the perimeter of the shape shown, giving your answer correct to 3 significant figures.

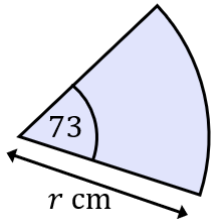


161 mm

(g)

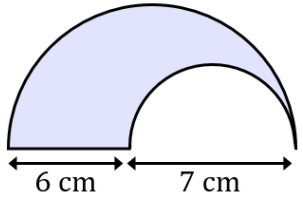
The area of the sector is $43\ \text{cm}^2$. Find its radius correct to 1 decimal place.

8.2 cm



(h)

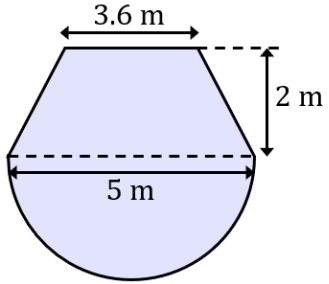
Find the perimeter of the shape shown, giving your answer correct to 1 decimal place.



37.4 cm

(i)

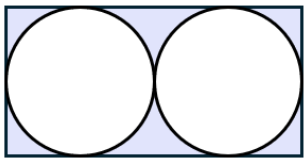
The diagram shows a plan of Anum's lawn. She wants to lawn seed across the lawn. One box of lawn seed covers $2\ \text{m}^2$ and costs £7.85. Work out how much Anum will need to spend.



£78.50

(j)

Two identical circles are enclosed in a rectangle. The radius of the circle is x cm. Given that the shaded area is $40\ \text{cm}^2$, find the value of x to 1 decimal place.



$x = 4.8$

(k)

Find the area of the shaded region correct to 3 significant figures.

$25.8\ \text{cm}^2$