Composite Areas

1. Calculate the area of each shape below
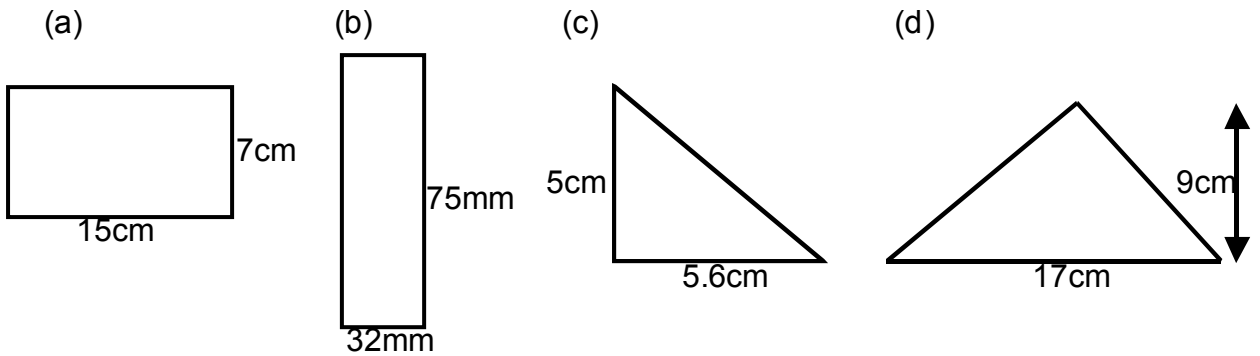
(a)

7cm

15cm

(b)

75mm

32mm

(c)

5cm

5.6cm

(d)

9cm

17cm

2. The shapes below consist of a rectangle and a triangle. Calculate the area of each shape.

(a)

15cm   21cm

20cm

(b)

15m

7m

12m

(c)

9cm

5cm

8.2cm

(d)

2m

1.6m

3m

(e)

75mm

110mm

50mm
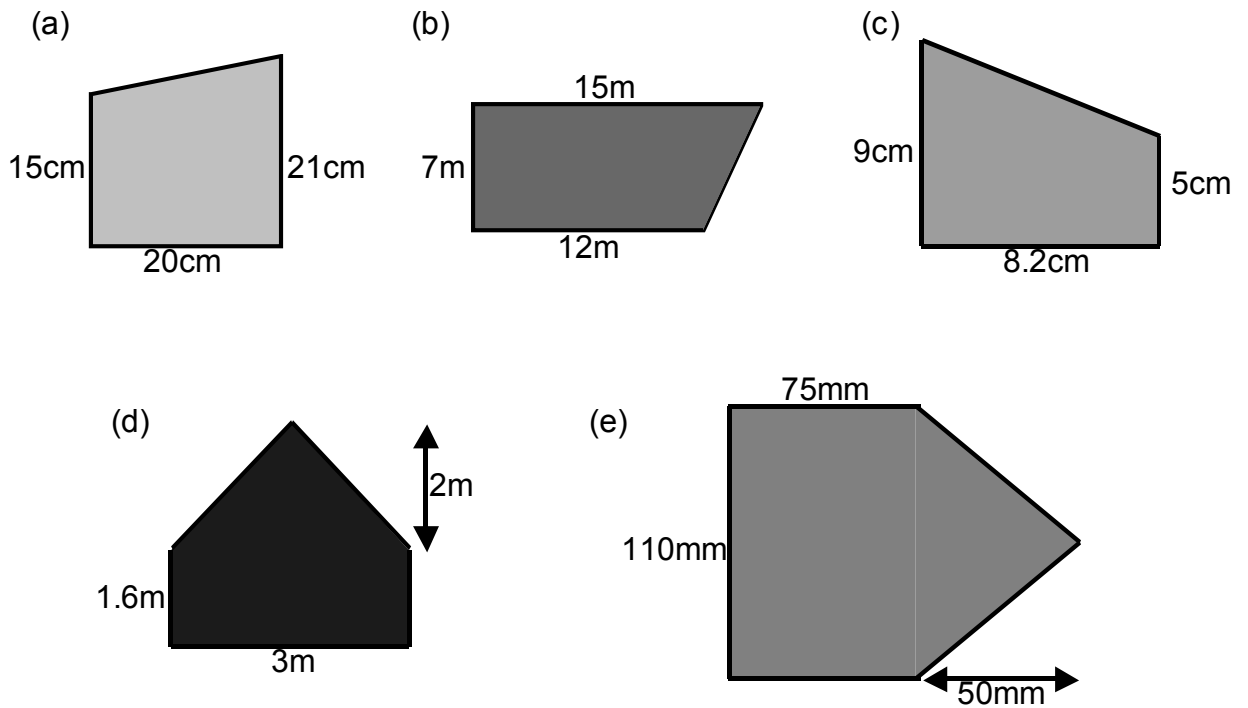
3. The shapes below consist of a rectangle and a semi-circle. Calculate the area of each shape.
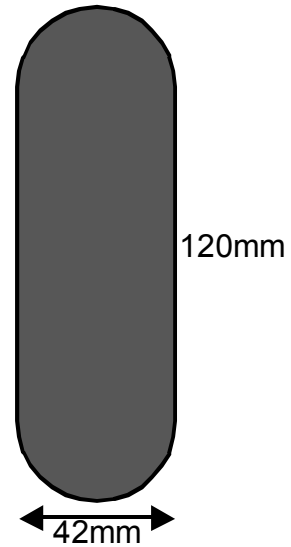
(a)

5m

8m

(b)

18cm

11cm

(c)

9.8cm

6.7cm
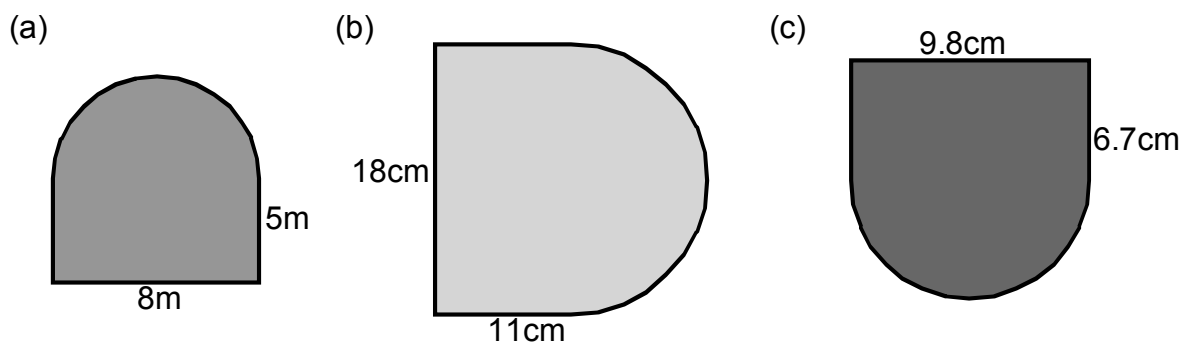
4. The shapes below consist of a rectangle with semi-circular ends. Calculate the area of each shape.
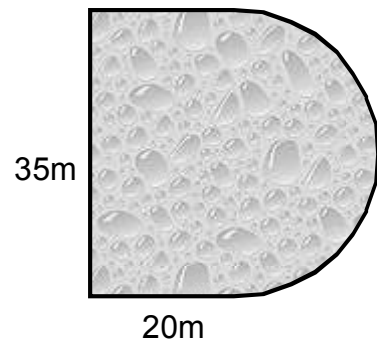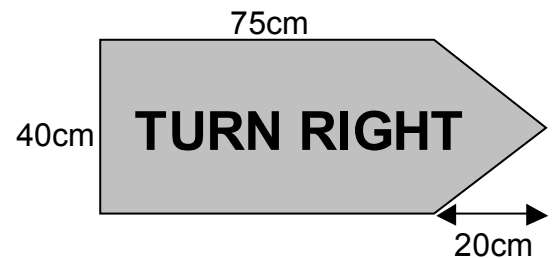
(a)

20m

45m

(b)

120mm

42mm
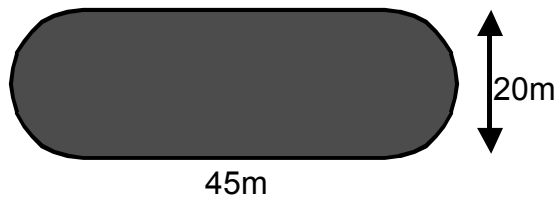
5. A swimming pool is in the shape of a rectangle with a semi-circular end.
Calculate the area of the swimming pool.

35m

20m
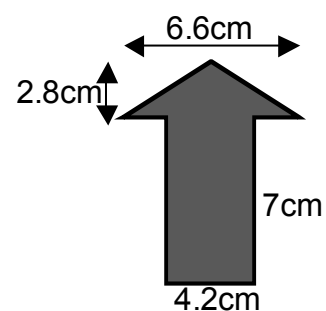
6. A metal road sign is in the shape of a rectangle and a triangle.
Calculate the area of metal needed to make the sign.
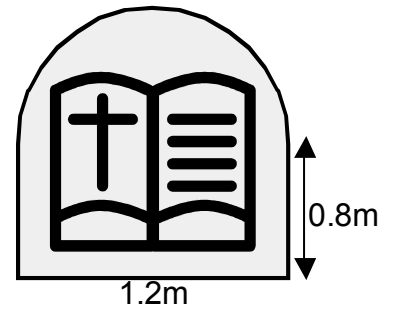
75cm

40cm **TURN RIGHT**

20cm

7. A lawn is in the shape of a rectangle with semi-circular ends.
Calculate the area of the lawn.

32m

14m
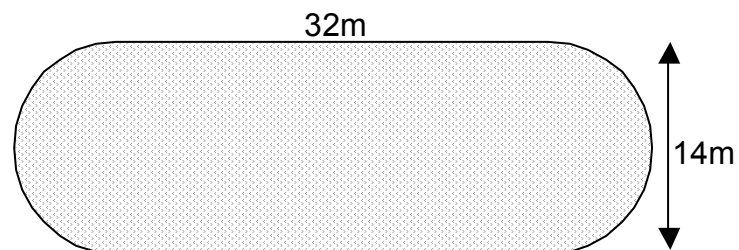
8. The diagram opposite shows an arrow shape.
Calculate its area.

6.6cm

2.8cm

7cm

4.2cm

9. The window in a church is in the shape of a rectangle with a semi-circular end.
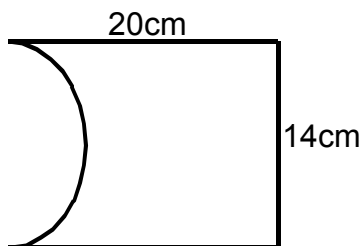Calculate the area of glass in the window.

0.8m

1.2m

10. The diagram shows the worktop in a kitchen.
The worktop is in the shape of a rectangle and a with semi-circular ends.
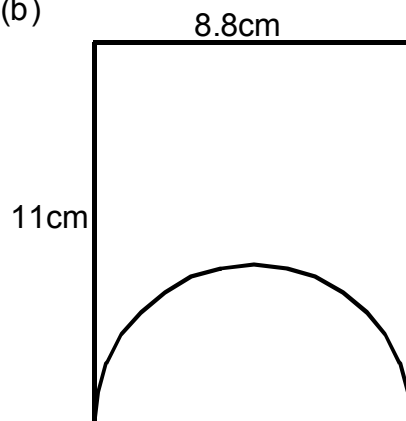Calculate the area of the worktop.

0.6m

1.65m
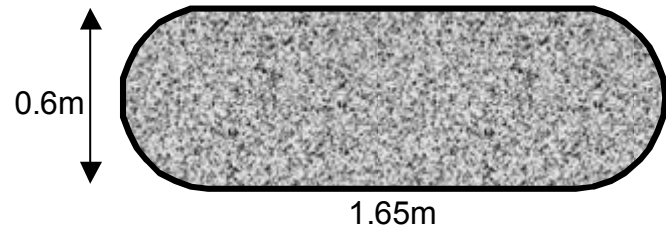
11. In each shape below a semi-circle has been cut from one or both ends of a rectangle.
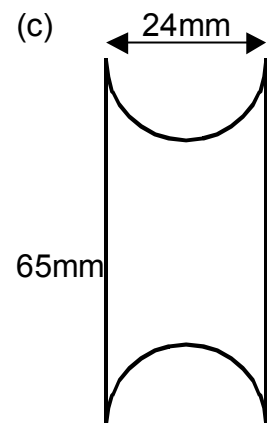Calculate the area in each case.
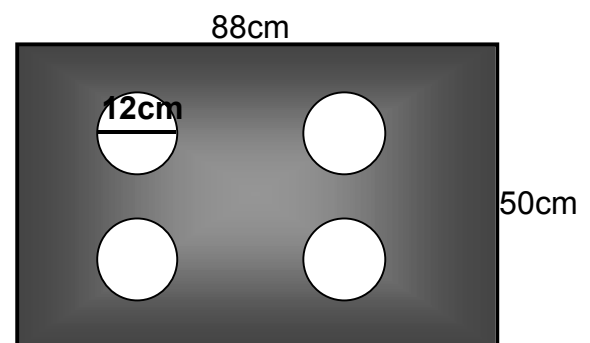
(a)

20cm

14cm

(b)

8.8cm

11cm

(c)

24mm

65mm

12. The diagram shows a rectangular piece of metal with 4 equally sized circular holes, of diameter 12 cm, cut from it.
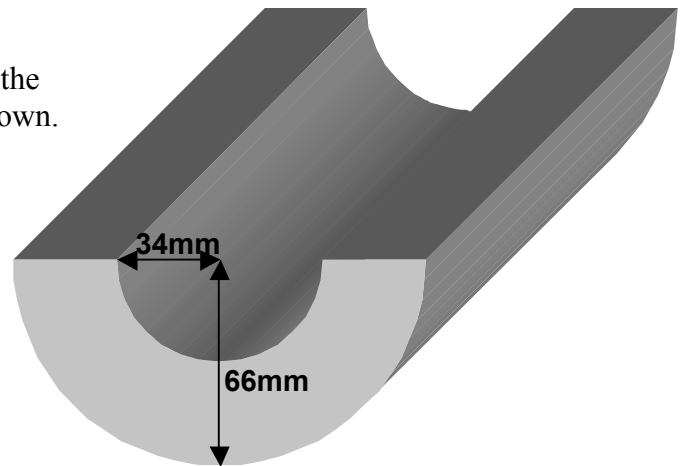Calculate the area of metal after the holes have been cut out.

88cm

12cm

50cm

13. The diagram opposite shows a washer consisting of two concentric circles of radii 14 mm and 22 mm. Calculate the surface area of the washer.

14 mm

22 mm
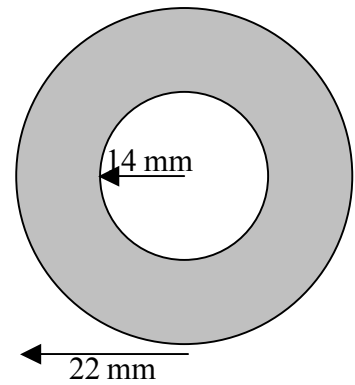
14. The logo for a shop selling miniature soldiers is in the shape of a rectangle with triangles removed at each end.
Calculate the area of this logo.

1.2m

BELL'S
MINIATURES

50cm

20cm
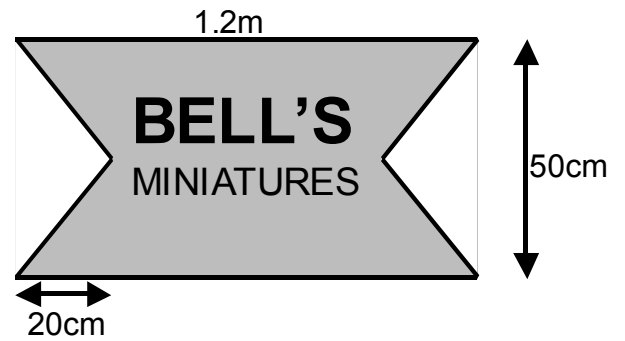
15. The end view of a piece of pipe is made up of the area between two semi-circles with radii as shown. Calculate the area of the end of the pipe.

34mm

66mm

16. A circular disc of diameter 10.2 cm has 9 square holes cut from it. Each square has length of side 2.5 cm.

Calculate the area of the disc after the squares have been removed.

10.2 cm