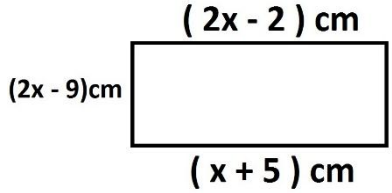
TOPIC : LENGTH MASS AND CAPACITY 2

1. Find the diameter of a circle whose circumference is 4.4 cm. (Take $\pi = \frac{22}{7}$)
(PLE 1998 number 23)

2. The figure below is a rectangle. Use the information given to answer the questions that follow. (PLE 1999 number 34)



(a) What is the perimeter of the rectangle?

(b) Find the area of the rectangle?

(c) Find the length of the diagonal of the rectangle.

3. A circle has a radius of 7 cm. Find its circumference.
(PLE 2001 number 28)

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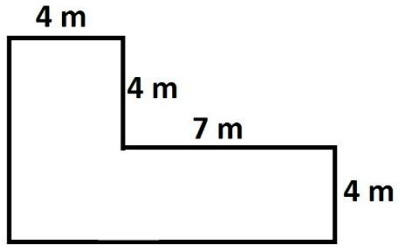
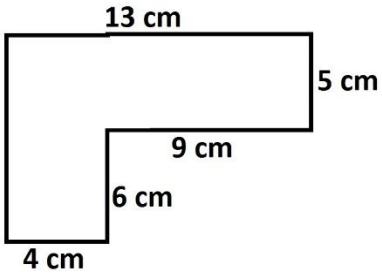
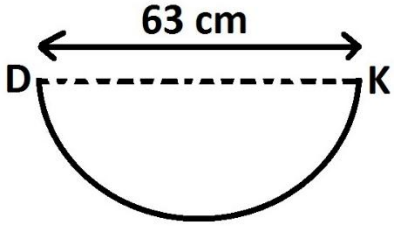
4. Akello has a garden of the shape shown below. Find the distance around her garden in metres. (PLE 2002 number 26)



5. Find the perimeter of the figure below. (PLE 2006 number 20)



6. Find the length of arc DK in the diagram below. (PLE 2016 number 15)



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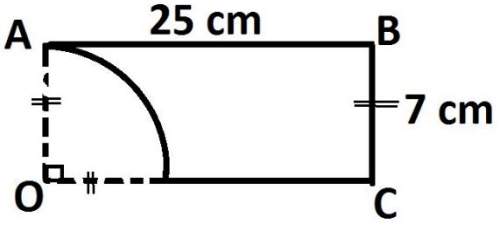
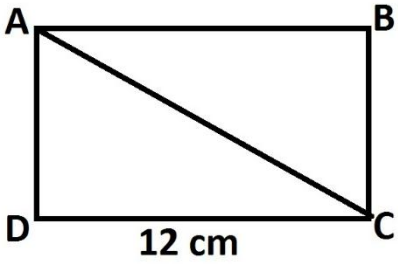
7. Carefully study the diagram below and use it to answer the questions that follow. Line AB = OC and AO = OD = BC. (PLE 2012 number 29)



(a) Calculate the length of arc AD.
(Take $\pi = \frac{22}{7}$)

(b) Work out the perimeter of ABCDA.

8. If the area of the figure ABCD below is 60m^2. Find the length of its diagonal AC. (PLE 1998 number 20)



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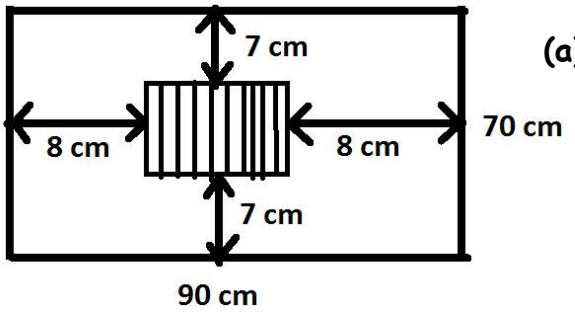
10. **A piece of cloth is laid on a table 90 cm long and 70 cm wide as shown in the figure below. The area covered by the piece of cloth is shaded.**

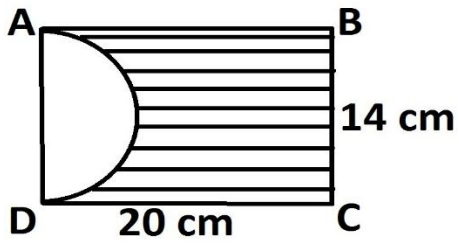
(PLE 1998 number 32)



(a) Find the length and width of the piece. of cloth.

(b) Find the area of the table which is not covered by the piece of cloth.

11. Find the area of the shaded part in the figure. (PLE 1998 number 37)



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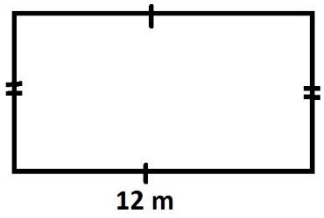
12. The radius of a wheel of a bicycle is 35 cm. Find the circumference of the wheel.
(PLE 2007 number 15)

13. The circumference of a circle is 88 cm. Find its radius.
(Take $\pi = \frac{22}{7}$) (PLE 2011 number 21)

14. The perimeter of the rectangle below is 36 m. Find its width if the length is 12 m.
(PLE 2012 number 13)



15. Opoka rides a distance of 2.97 km from his home to school on a bicycle. The wheel of the bicycle has a diameter of 63cm.
(PLE 2013 number 29)
(a) How many revolutions does the wheel make to cover the distance? (Take $\pi = \frac{22}{7}$)

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b) If Opoka makes 50 revolutions in one minute. How long does he take to reach the school? (PLE 2013 number 29b)

16. Find the area of a circle whose radius is 7 cm. (Use $\pi = \frac{22}{7}$).
(PLE 2003 number 18)

17. The perimeter of a rhombus is 100 cm and One of its diagonals is 48 cm. Find its area. (PLE 2001 number 41)

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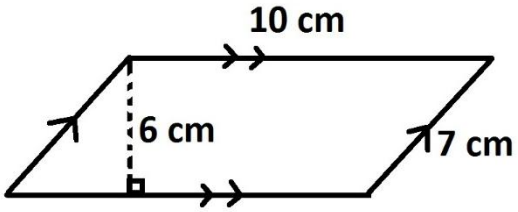
18. Square tiles of side 20 cm each were laid on the floor of a room measuring 600 cm by 400 cm. (PLE 2009 number 40)

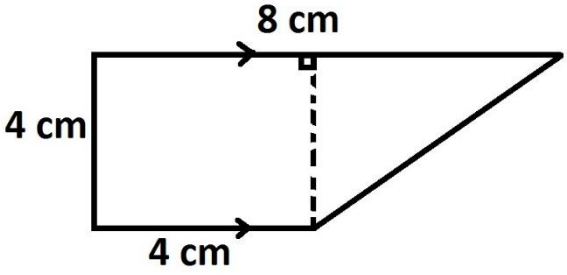
(a) Find the number of tiles needed to cover the floor.

(b) If a box containing 25 tiles costs sh. 30,000. Find the total cost of tiles needed to cover the whole floor.

19. Find the area of the parallelogram drawn below. (PLE 1999 number 14)



20. Find the area of the trapezium below. (PLE 2003 number 27)



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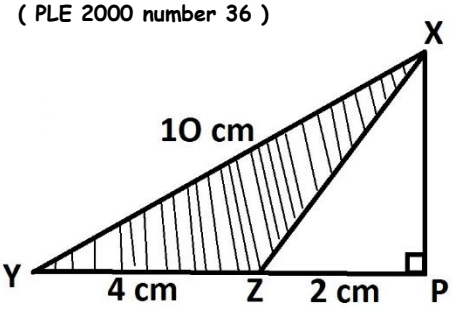
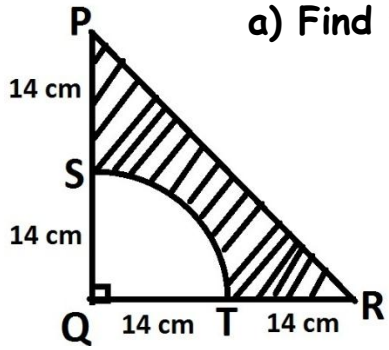
21. In the figure below, find the area of the shaded triangle XYZ.
(PLE 2000 number 36)



22. In the figure below, PQ = QR = 28 cm. Use it to answer the questions that follow. (PLE 2002 number 39)



a) Find the area of the triangle PQR.

b) Find the area of the sector QST.

c) What is the area of the shaded part.

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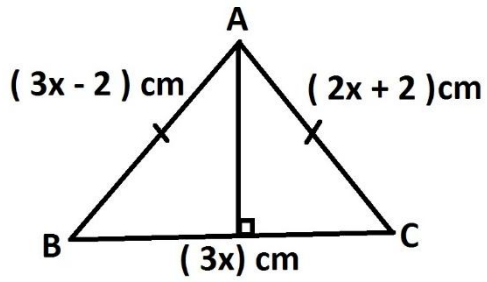
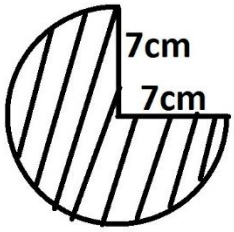
23. The figure ABC below is an isosceles triangle . Use it to answer the questions that follow. (PLE 2003 number 32)



a) Find the issue of x.

b) Find the area of triangle ABC.

24. Find the area of the shaded part in the diagram. (PLE 2005 number 22)



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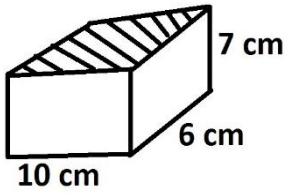
24. Abdul cut out circular plates of diameter 7 cm from a rectangular sheet of metal of length 45 cm and width 35 cm shown below. (PLE 2004 number 37)

(a) How many circular plates did he cut from the rectangular sheet.

(b) Find the area of the unused sheet after cutting out the circular plates.
(Take $\pi = \frac{22}{7}$)

25. Fund the area of the unshaded top cover of the rectangular box below.
(PLE 2004 number 14)



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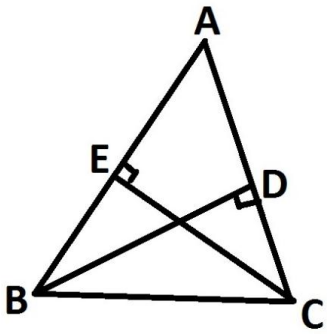
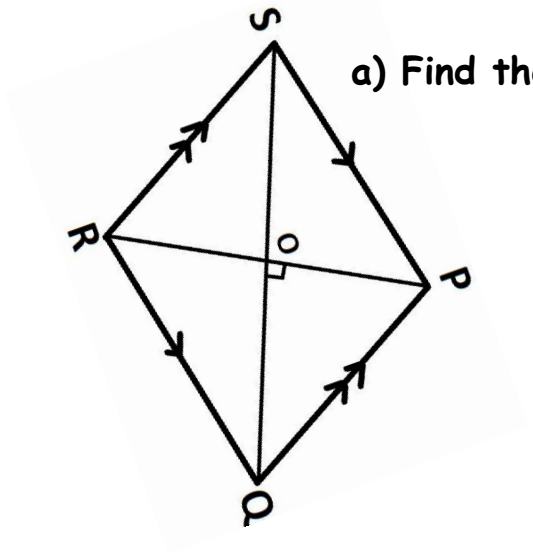
26. In the triangle below AB = 12 cm, CE = 10cm and AC = 16 cm. Find the length of BD in cm. (PLE 2004 number 40b)



27. The diagram below is a rhombus PQRS. Its perimeter is 80 cm. The diagonal SQ is 24 cm long. (PLE 2005 number 38)



a) Find the length of diagonal PR.

b) Find the area of the rhombus in cm^2

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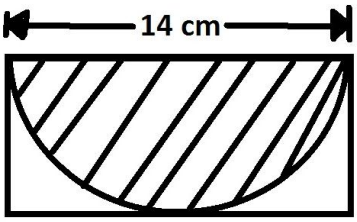
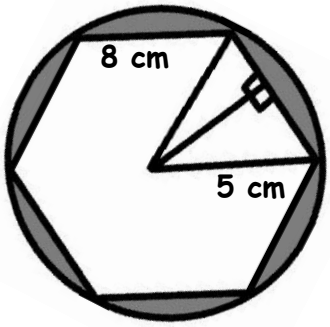
28. The figure below shows a semi-circle enclosed in a rectangle. Use it to answer the questions that follow. (PLE 2006 number 36)



a) Find the area of the rectangle

b) Work out the area of the unshaded part.

29. The figure below shows a regular six-sided polygon of sides 8 cm long enclosed in a circle of radius 5 cm. Triangle)AB of height 3 cm is part of the polygon. Find the area of the shaded part.
(PLE 2008 number 36)



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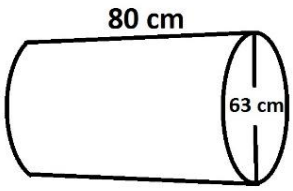
30. The diagram below shows a metallic drum which was cut open to form a door sheet. Use it to answer the questions that follow.

(PLE 2007 number 40)

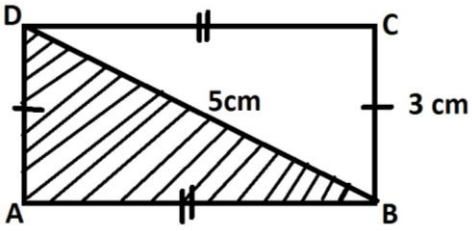


(a) Find the length of the door which was made out of the sheet.

(b) Work out the area of the door in metres squared.

32. Find the area of the shaded part in the figure below

(PLE 2008 number 28)



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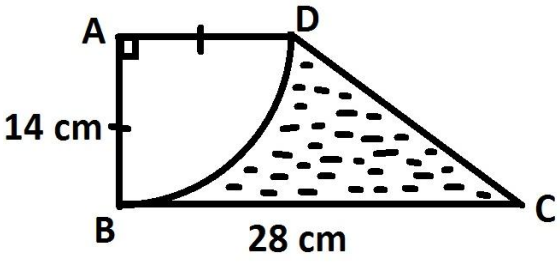
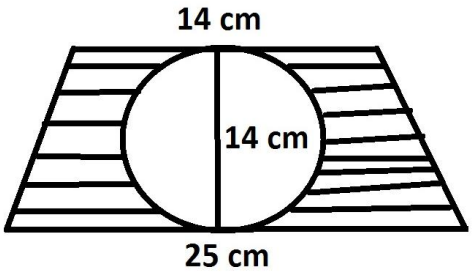
33. The figure below is a trapezium where AB = AD = 14 cm. BC = 28 cm and ABD forms a quarter of a circle. Calculate the area of the shaded part. (Take $\pi = \frac{22}{7}$) (PLE 2007 number 40)



34. Find the area of the shaded part in the diagram below. (Take $\pi = \frac{22}{7}$)
(PLE 2010 number 37)



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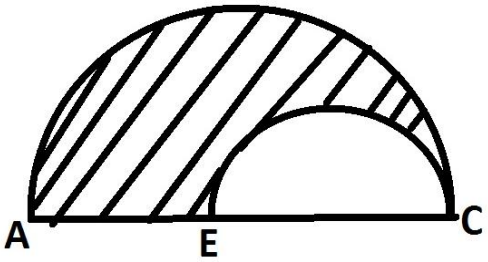
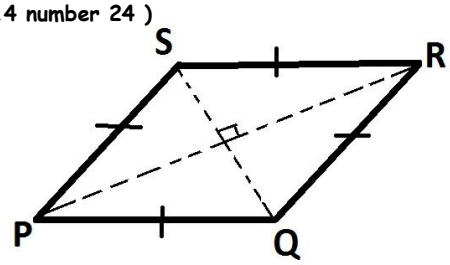
35. In the figure below AC = 56 cm and EC is half of AC. Find the area of the shaded part.
(Take $\pi = \frac{22}{7}$) **(PLE 2011 number 37)**



36. The diagram below shows a rhombus PQRS. The diagonals PR = 24 cm and QS = 10 cm.
(PLE 2014 number 24)



a) Find the area of the rhombus?
(PLE 2000 number 14)

b) Calculate the perimeter of the rectangular floor.

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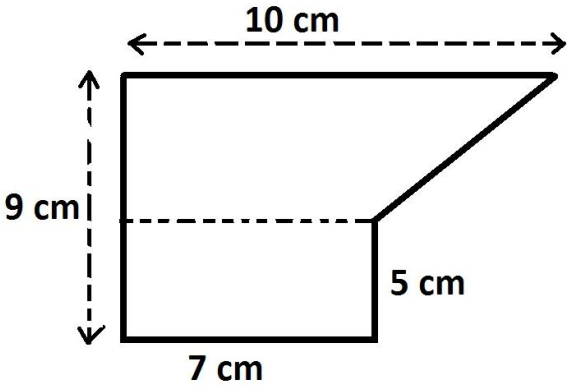
37. Study the figure below and use it to answer the questions that follow. (PLE 2015 number 29)



a) Calculate the area of the figure.

b) Calculate the perimeter of the figure.

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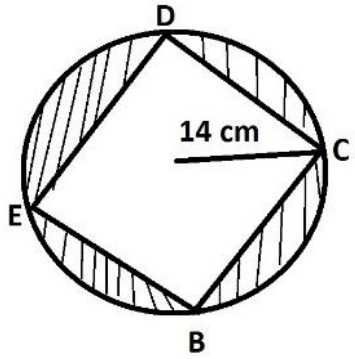
38. The diagram below shows a square BCDE enclosed in a circle with centre O and radius 14 cm. Parts of the circle are shaded as shown. Study the diagram and use it to answer the questions that follow. (PLE 2017 number 30)



a) Calculate the area of the circle. (Use $\pi = \frac{22}{7}$)

b) Find the area of the shaded part.

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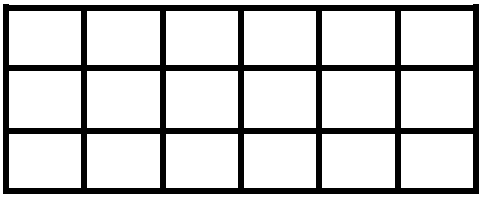
39. The figure below represents a rectangular floor which is covered by square tiles of area 400 cm^2 each. Use it to answer the questions that follow.
(PLE 2016 number 26)



(a) Find the area of the rectangular floor.

(b) Find the area of the shaded part.

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