MATHS

BOOKS - NCERT EXEMPLAR

PERIMETER AND AREA

Solved Examples

1. Area of a right triangle is $54cm^2$. If one of its legs is 12 cm long, its perimeter is

A. 18 cm

B. 27 cm

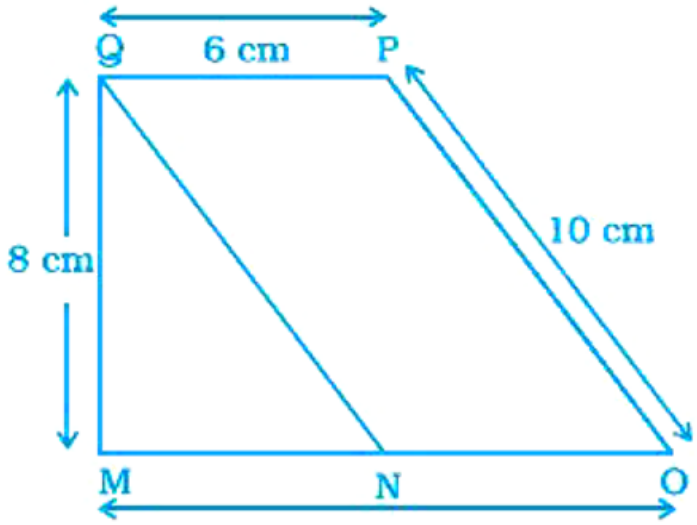
C. 36 cm

D. 54 cm

Answer: C

Watch Video Solution

2. Area of parallelogram QPON is_____ cm^2.



Watch Video Solution

3. 1 hectare=___m^2

Watch Video Solution

4. _____ squares of each side 1 m makes a square of side 5 km.

Watch Video Solution

5. All the congruent triangles have _____ area.

A. Unequal

B. one third

C. equal

D. none of these

Answer: C

Watch Video Solution

6. All the triangles equal in area are congruent.

Watch Video Solution

7. The area of any parallelogram ABCD, is AB X BC.

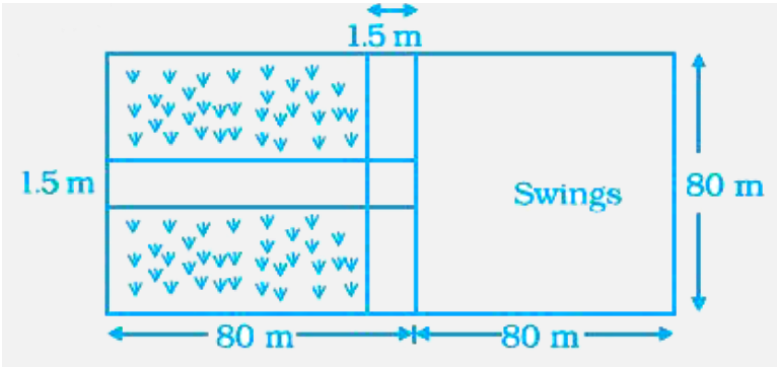
Watch Video Solution

8. Ratio of the circumference and the diameter of a circle is more than 3.

Watch Video Solution

9. A nursery school play ground is 160 m long and 80 m wide. In it 80 m $\times$ 80 m is kept for swings and in the remaining portion, there is 1.5 m wide path parallel to its width and

parallel to its remaining length as shown in Fig. 9.9. The remaining area is covered by grass. Find the area covered by grass.



A. $6456.25m^2$

B. $5676.25m^2$

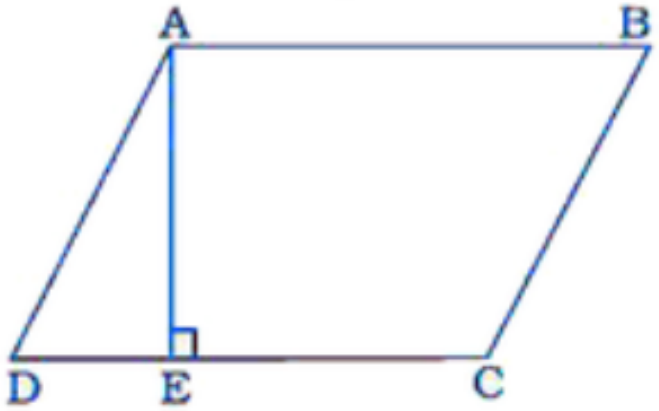
C. $7962.25m^2$

D. $6162.25m^2$

Answer: D

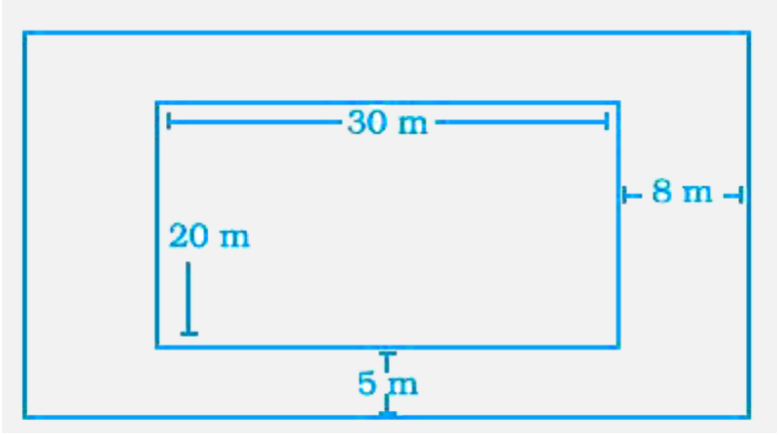
Watch Video Solution

10. In Fig. 9.10, ABCD is a parallelogram, in which AB = 8 cm, AD = 6 cm and altitude AE = 4 cm. Find the altitude corresponding to side AD.



Watch Video Solution

11. A rectangular shaped swimming pool with dimensions 30 m x 20 m has 5 m wide cemented path along its length and 8 m wide path along its width (as shown in Fig. 9.11). Find the cost of cementing the path at the rate of Rs 200 per m^2



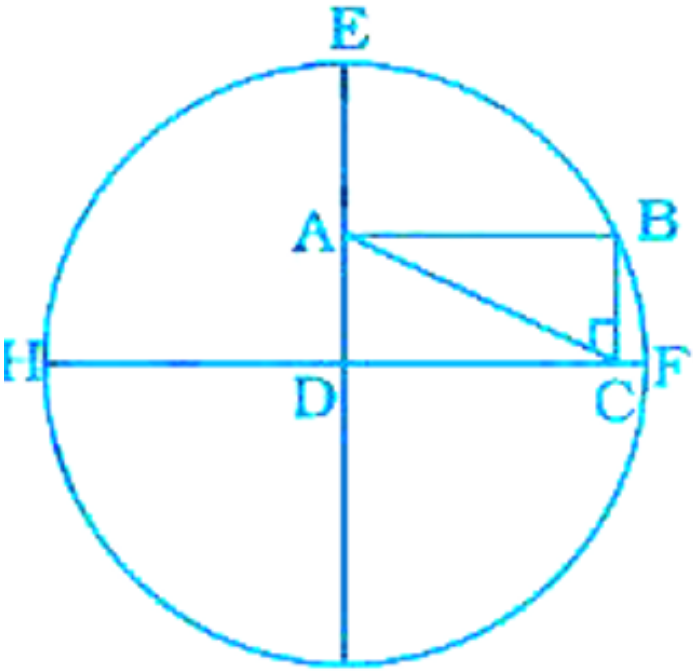
Watch Video Solution

12. Circumference of a circle is 33cm. Find its area.

Watch Video Solution

13. Rectangle ABCD is formed in a circle as shown in Fig. 9.12. If AE = 8 cm and AD = 5 cm,

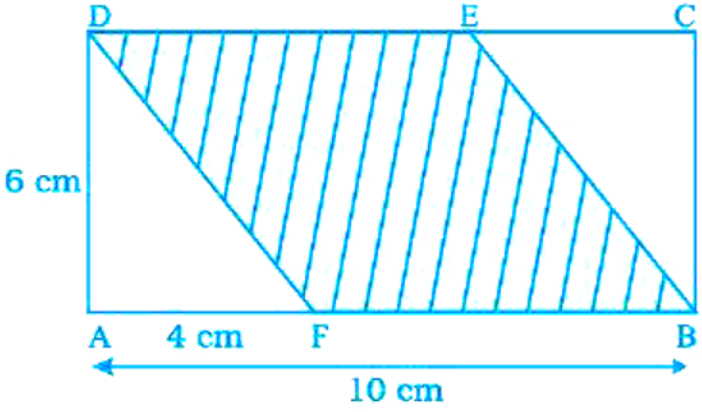
find the perimeter of the rectangle.



Watch Video Solution

14. Find the area of a parallelogram shaped shaded region of Fig. 9.13. Also, find the area of

each triangle. What is the ratio of area of shaded portion to the remaining area of rectangle?



Watch Video Solution

Exercise

1. A rectangular piece of dimensions 3 cm x 2 cm was cut from a rectangular sheet of paper of dimensions 6 cm x 5 cm. Area of remaining sheet of paper is

A. $30cm^2$

B. $36cm^2$

C. $24cm^2$

D. $22cm^2$

Answer: C

Watch Video Solution

2. 36 unit squares are joined to form a rectangle with the least perimeter. Perimeter of the rectangle is

A. 12 units

B. 26 units

C. 24 units

D. 36 units

Answer: B

Watch Video Solution

3. A wire is bent to form a square of side 22 cm. If the wire is rebent to form a circle, its radius is

A. 22 cm

B. 14 cm

C. 11 cm

D. 7 cm

Answer: B

Watch Video Solution

4. Find the area of the circle whose perimeter is 132 cm.

Watch Video Solution

5. Area of a rectangle and the area of a circle are equal. If the dimensions of the rectangle are 14cm x 11 cm, then radius of the circle is

A. 21 cm

B. 10.5 cm

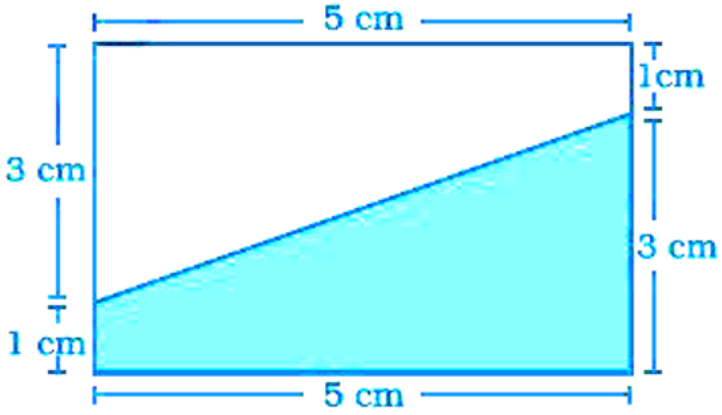
C. 14 cm

D. 7 cm.

Answer: D

Watch Video Solution

6. Area of shaded portion in Fig. 9.15 is



A. $25cm^2$

B. $15cm^2$

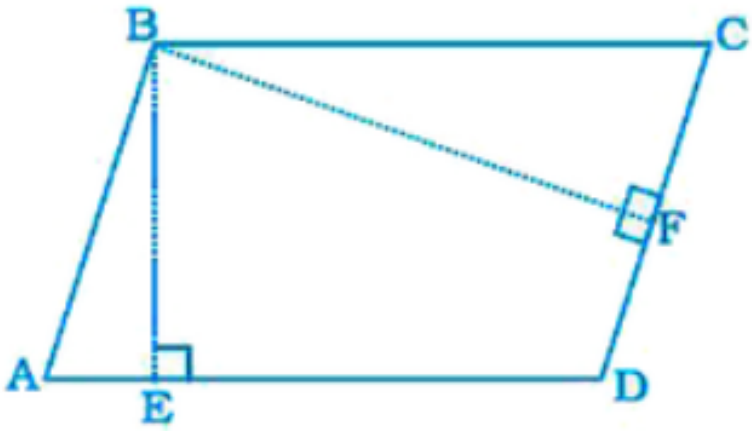
C. $14cm^2$

D. $10cm^2$

Answer:

Watch Video Solution

7. Area of parallelogram ABCD (Fig. 9.16) is not equal to



A. DEX DC

B. BE X AD

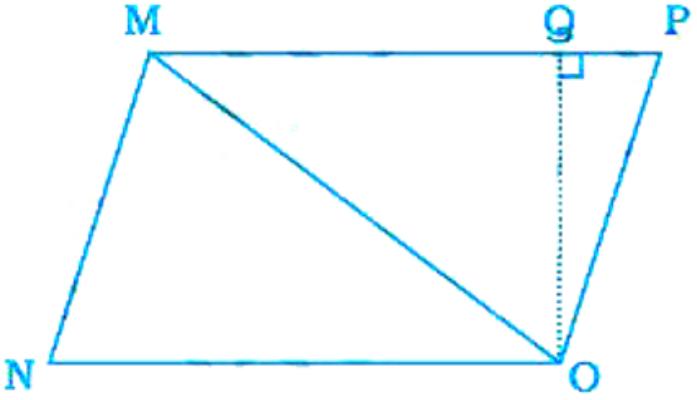
C. BF X DC

D. BEX BC

Answer:

Watch Video Solution

8. Area of triangle MNO of Fig. 9.17 is



A. $\frac{1}{2}MN \times NO$

B. $\frac{1}{2}NO \times MO$

C. $\frac{1}{2}MN \times OQ$

D. $\frac{1}{2}NO \times OQ$

Answer:

Watch Video Solution

9. Ratio of area of AMNO to the area of parallelogram MNOP in the same figure 9.17 is

A. $2:3$

B. $1:1$

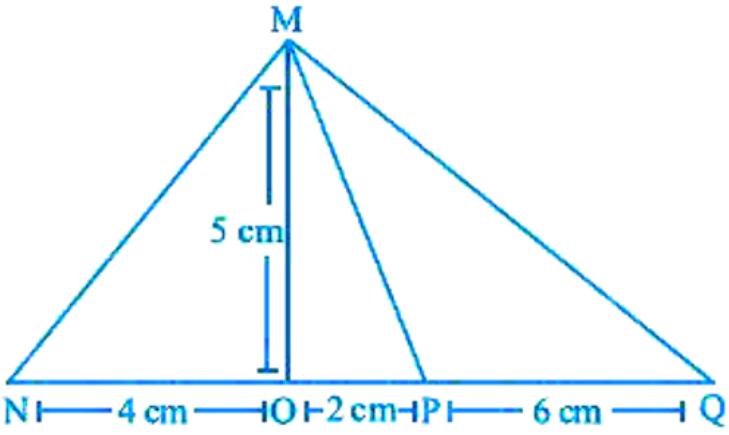
C. $1:2$

D. $2:1$

Answer:

Watch Video Solution

10. Ratio of areas of $\Delta MNO, \Delta MOP$ and ΔMPO in Fig. 9.18 is



A. $2:1:3$

B. $1:3:2$

C. $2:3:1$

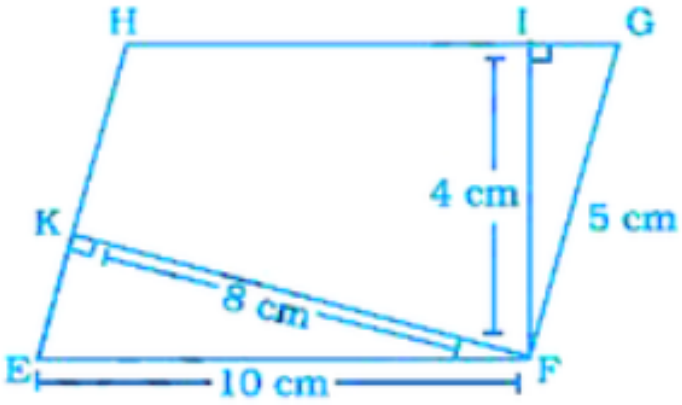
D. $1:2:3$

Answer:

Watch Video Solution

11. In Fig. 9.19, EFGH is a parallelogram, altitudes FK and FI are 8 cm and 4cm

respectively. If EF = 10 cm, then area of EFGH is



A. $20cm^2$

B. $32cm^2$

C. $40cm^2$

D. $80cm^2$

Answer:

Watch Video Solution

12. In reference to a circle the value of π is equal to

A. $\frac{\text{area}}{\text{circumference}}$

B. $\frac{\text{area}}{\text{diameter}}$

C. $\frac{\text{circumference}}{\text{diameter}}$

D. $\frac{\text{circumference}}{\text{radius}}$

Answer: C

Watch Video Solution

13. The ratio of radius and circumference of a circle is :

A. more than three times of its diameter

B. three times of its diameter

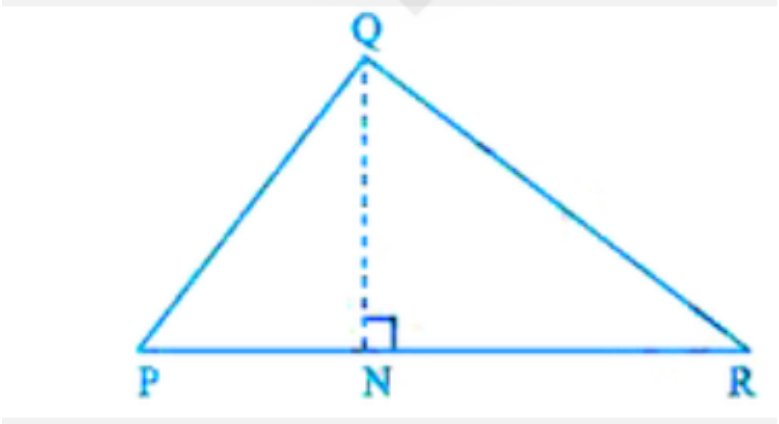
C. less than three times of its diameter

D. three times of its radius

Answer:

 Watch Video Solution

14. Area of triangle PQR is $100cm^2$ (Fig. 9.20). If altitude CT is 10 cm, then its base PR is



A. 20 cm

B. 15 cm

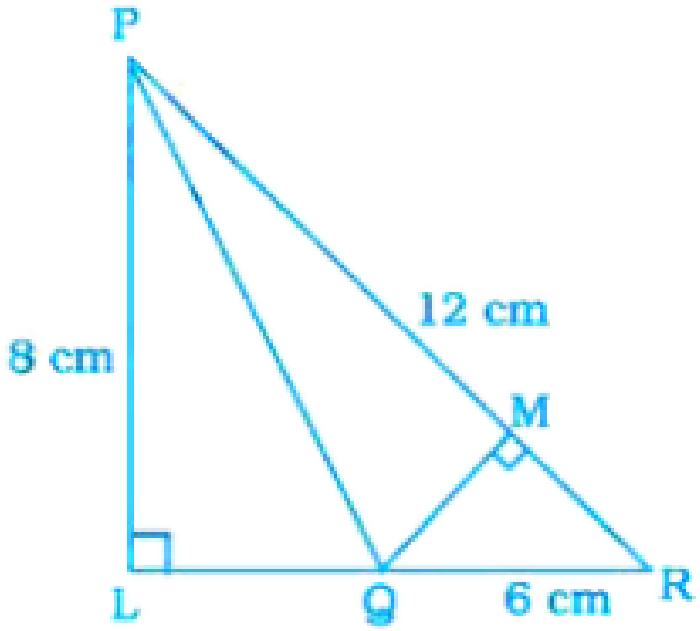
C. 10 cm

D. 5 cm

Answer:

Watch Video Solution

15. In Fig. 9.21, if PR = 12 cm, QR = 6 cm and PL = 8 cm, then QM is



A. 6 cm

B. 9 cm

C. 4 cm

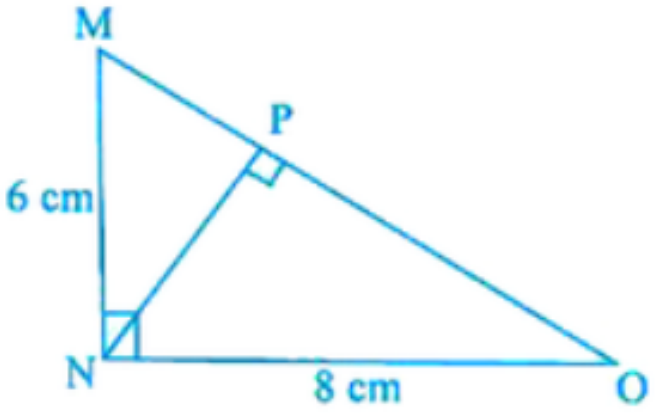
D. 2 cm

Answer:

Watch Video Solution

16. In Fig. 9.22 ΔMNO is a right-angled triangle. Its legs are 6 cm and 8 cm long,

Length of perpendicular NP on the side MO is



A. 4.8 cm

B. 3.6 cm

C. 2.4 cm

D. 1.2 cm

Answer:

Watch Video Solution

17. Area of a right-angled triangle is $30cm^2$. If its smallest side is 5 cm, then its hypotenuse is

A. 14cm

B. 13 cm

C. 12 cm

D. 11 cm

Answer: B

Watch Video Solution

18. Circumference of a circle of diameter 5 cm is

A. 3.14 cm

B. 31.4 cm

C. 15.7 cm

D. 1.57 cm

Answer: C

Watch Video Solution

19. Circumference of a circle disc is 88 cm. Its radius is

A. 8 cm

B. 11 cm

C. 14 cm

D. 44 cm

Answer:

Watch Video Solution

20. Length of tape required to cover the edges of a semicircular disc of radius 10 cm is

A. 62.8 cm

B. 51.4 cm

C. 31.4 cm

D. 15.7 cm

Answer: B

Watch Video Solution

21. Area of circular garden with diameter 8 m is

A. $12.56m^2$

B. $25.12m^2$

C. $50.12m^2$

D. $200.96m^2$

Answer:

Watch Video Solution

22. Area of a circle with diameter 'm' radius 'n' and circumference 'p' is

A. $2\pi n$

B. πm^2

C. πp^2

D. πn^2

Answer: D

Watch Video Solution

23. A table top is semicircular in shape with diameter 2.8 m. Area of this table top is

A. $3.08m^2$

B. $6.16m^2$

C. $12.32m^2$

D. $24.64m^2$

Answer: A

Watch Video Solution

24. If $1\ m^2 \equiv xmm^2$, then the value of x is

A. 1000

B. 10000

C. 100000

D. 1000000

Answer:

Watch Video Solution

25. If p squares of each side 1mm makes a square of side 1cm, then p is

A. 10

B. 100

C. 1000

D. 10000

Answer: B

Watch Video Solution

26. 12 m^2 is the area of

A. a square with side 12 m

B. 12 squares with side Im each

C. 3 squares with side 4 m each

D. 4 squares with side 3 m each

Answer:

Watch Video Solution

27. If each side of a rhombus is doubled, how much will its area increase?

A. 1.5 times

B. 2 times

C. 3 times

D. 4 times

Answer: C

Watch Video Solution

28. If the sides of a parallelogram are increased to twice its original lengths, how much will the perimeter of the new parallelogram increase?

A. 1.5 times

B. 2 times

C. 3 times

D. 4 times

Answer: D

Watch Video Solution

29. If the radius of a circle is doubled, its area is increased by (a) 100% (b) 200% (c) 300% (d) 400%

A. 1.4 times

B. 2 times

C. 3 times

D. 4 times

Answer:

 Watch Video Solution

30. What will be the area of the largest square that can be cut out of a circle of radius 10 cm?

A. $100cm^2$

B. $200cm^2$

C. $300cm^2$

D. $400cm^2$

Answer:

Watch Video Solution

31. What is the radius of the largest circle that can be cut out of the rectangle measuring 10 cm in length and 8 cm in breadth?

A. 4 cm

B. 5 cm

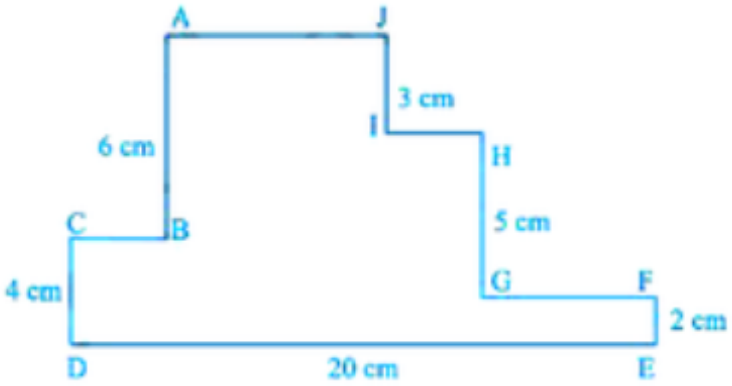
C. 8 cm

D. 10 cm

Answer: A

Watch Video Solution

32. The perimeter of the figure ABCDEFGHIJ is



A. 60 cm

B. 30 cm

C. 40 cm

D. 50 cm

Answer:

Watch Video Solution

33. The circumference of a circle whose area is $81\pi r^2$, is

A. $9\pi r$

B. $18\pi r$

C. $3\pi r$

D. $81\pi r$

Answer:

Watch Video Solution

34. The area of a square is 100 cm. The circumference (in cm) of the largest circle cut of it is

A. 5π

B. 10π

C. 15π

D. 20π

Answer:

Watch Video Solution

35. If the radius of a circle is tripled, the area becomes

A. 9 times

B. 3 times

C. 6 times

D. 30 times

Answer: A


Watch Video Solution

36. The area of a semicircle of radius 4t is

A. $5\pi t^2$

B. $4\pi t^2$

C. $12\pi t^2$

D. $2\pi t^2$

Answer:

Watch Video Solution

37. All triangles have the same base and the same altitude. True or false.

Watch Video Solution

38. All triangles are congruent. True or false.

Watch Video Solution

39. All triangles are equal in area. True or false.

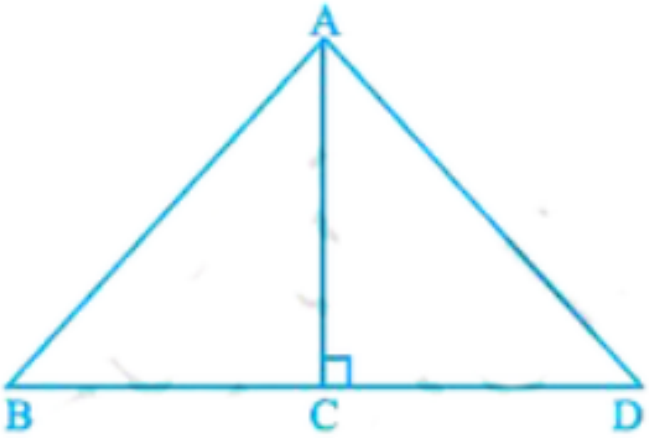
Watch Video Solution

40. All triangles have the same perimeter. True or false.

Watch Video Solution

41. In Fig. 9.29 ratio of the area of triangle ABC to the area of triangle ACD is the same as the ratio of base BC of triangle ABC to the base CD

of triangle ACD.



Watch Video Solution

42. Triangles having the same base have equal area. True or false

Watch Video Solution

43. Ratio of circumference of a circle to its radius is always $2\pi : I$.

Watch Video Solution

44. 5 hectare $= 500m^2$

Watch Video Solution

45. An increase in perimeter of a figure always increases the area of the figure.

Watch Video Solution

46. Two figures having the same area cannot have different perimeters. True or false.

Watch Video Solution

47. If area of a parallelogram is $24cm^2$ and one of the side is of length 6 cm, then length of the corresponding altitude is.

Watch Video Solution

48. A hedge boundary needs to be planted around a rectangular lawn of size 72 m x 18 m. If 3 shrubs can be planted in a metre of hedge. how many shrubs will be planted in all?

Watch Video Solution

49. The perimeter of a rectangle is 40 m. Its length is four metres less than five times its breadth. Find the area of the rectangle.

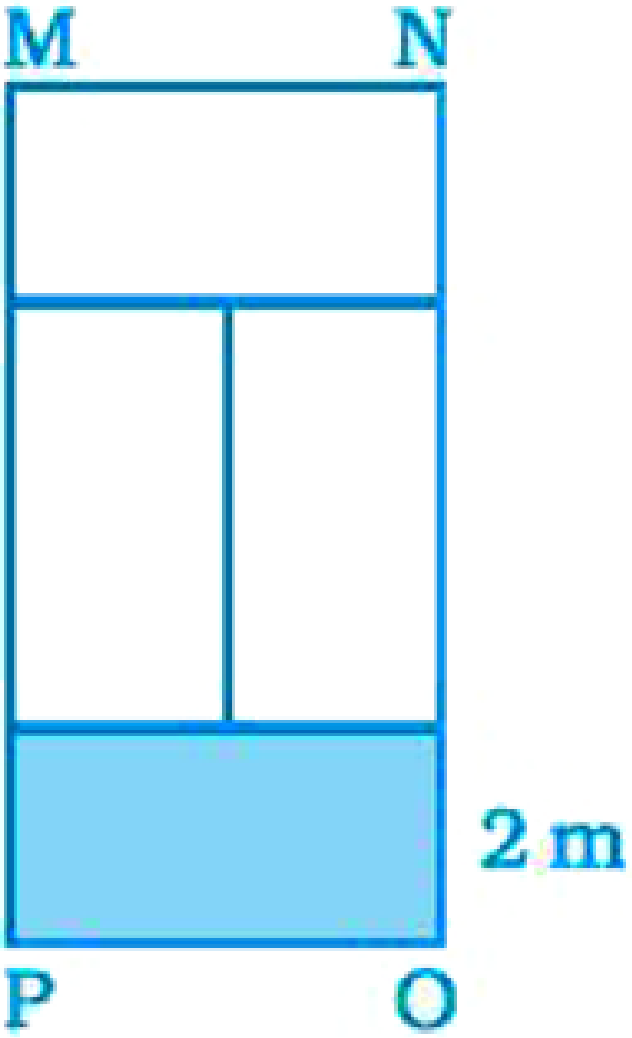
Watch Video Solution

50. A wall of a room is of dimensions 5 mx 4 m. It has a window of dimensions 1.5 mx 1m and a door of dimensions 2.25 m x 1m. Find the area of the wall which is to be painted.

Watch Video Solution

51. Rectangle MNOP is made up of four congruent rectangles (Fig. 9.31). If the length of one of the rectangle is 8 m and breadth is 2

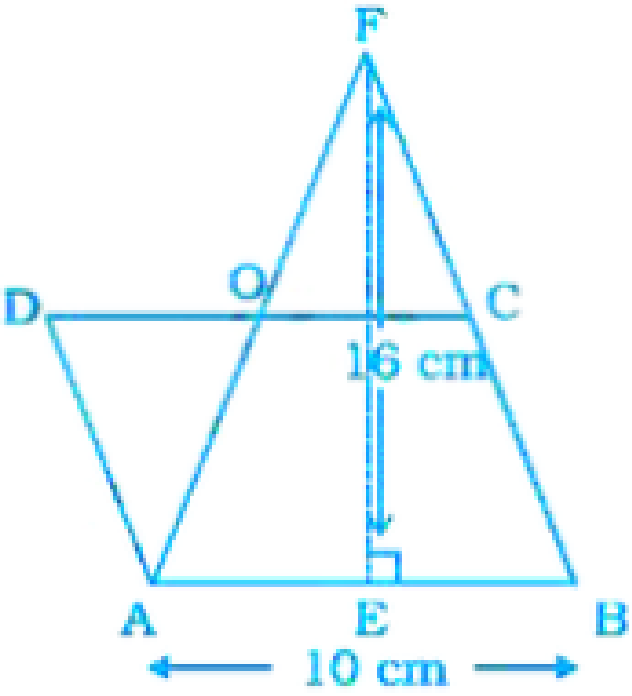
m, then find the perimeter of MNOP.



Watch Video Solution

52. In Fig. 9.32, area of ΔAFB is equal to the area of parallelogram ABCD. If altitude EF is 16 cm long, find the altitude of the parallelogram to the base AB of length 10 cm. What is the area of ΔDAO, where O is the mid point of

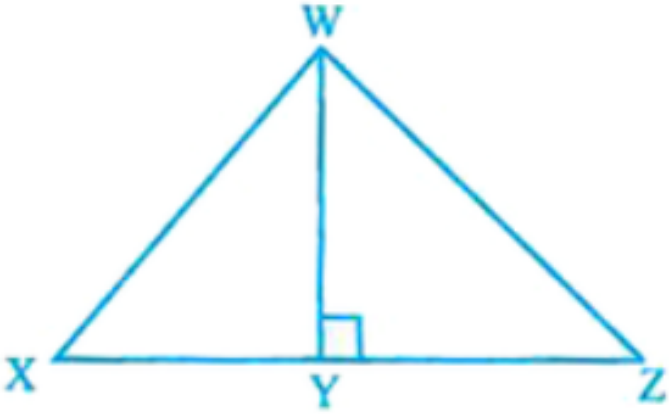
DC?



Watch Video Solution

53. Ratio of the area of ΔWXY to the area of ΔWZY is 3:4 (Fig. 9.33). If the area of

$\Delta WXZ is 56 cm^2$ and WY = 8 cm, find the lengths of XY and YZ.



Watch Video Solution

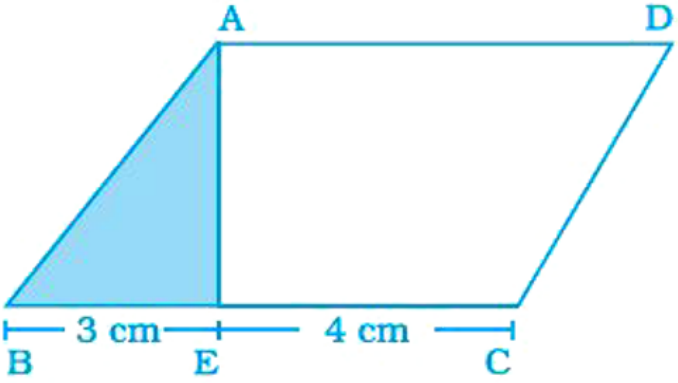
54. Rani bought a new field that is next to one she already owns (Fig. 9.34). This field is in the shape of a square of side 70 m. She makes a

semi circular lawn of maximum area in this field.

(i) Find the perimeter of the lawn. (ii) Find the area of the square field excluding the lawn.

Watch Video Solution

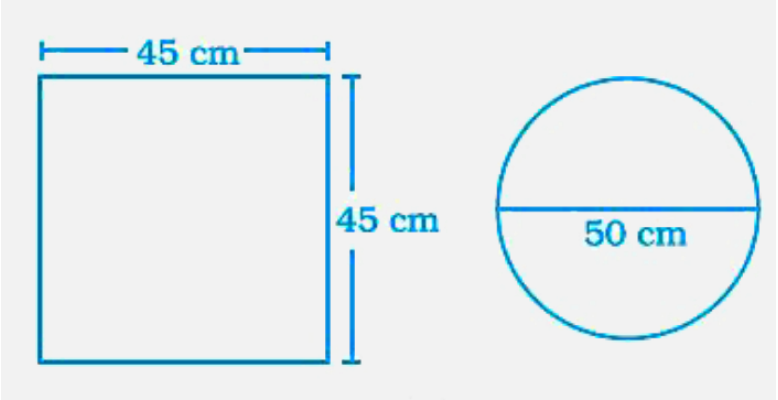
55. In Fig. 9.35, find the area of parallelogram ABCD if the area of shaded triangle is $9cm^2$.



Watch Video Solution

56. Pizza factory has come out with two kinds of pizzas1 A square pizza of side 45 cm costs

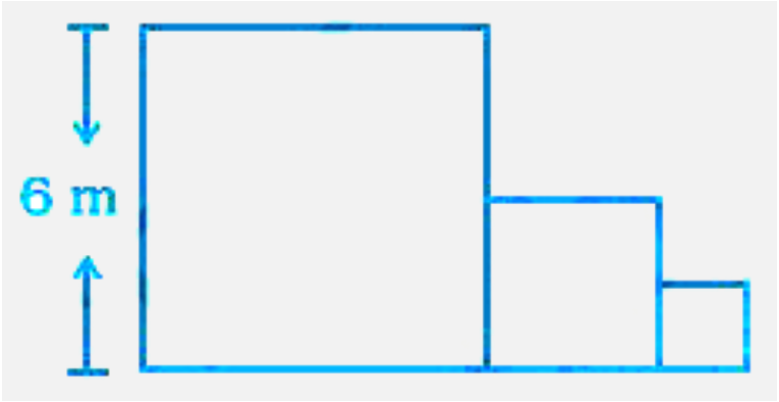
150 and a circular pizza of diameter 50 cm costs 160 (Fig. 9.36). Which pizza is a better deal?



Watch Video Solution

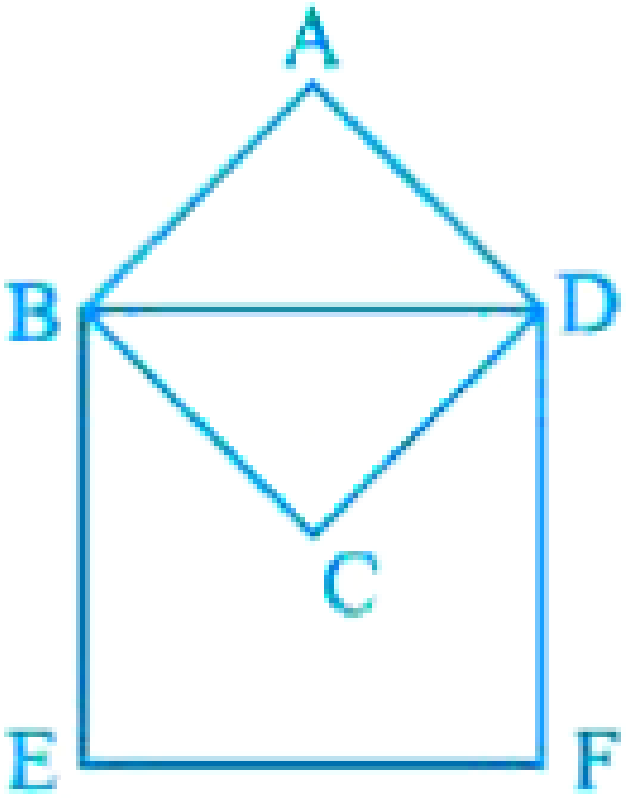
57. Three squares are attached to each other as shown in Fig1 9.37. Each square is attached at the mid point of the side of the square to

its right. Find the perimeter of the complete figure.



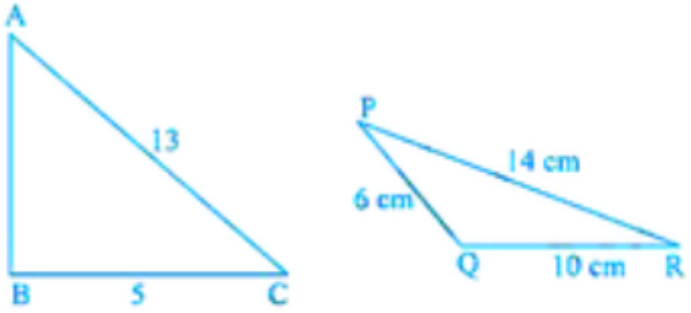
Watch Video Solution

58. In Fig1 9.38. ABCD is a square with AB= 15 cm. Find the area of the square BDFE.



Watch Video Solution

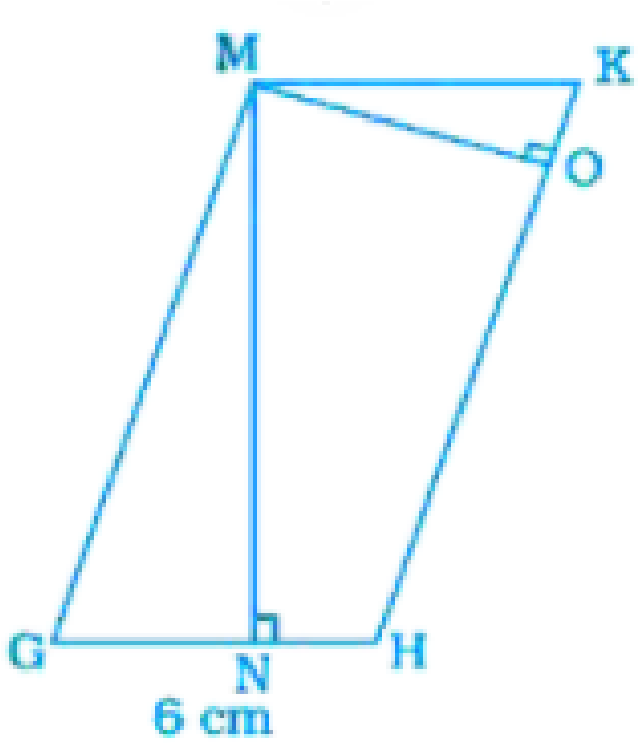
59. In the given triangles of Fig. 9.39, perimeter of ΔABC = perimeter of ΔPQR. Find the area of ΔABC.



Watch Video Solution

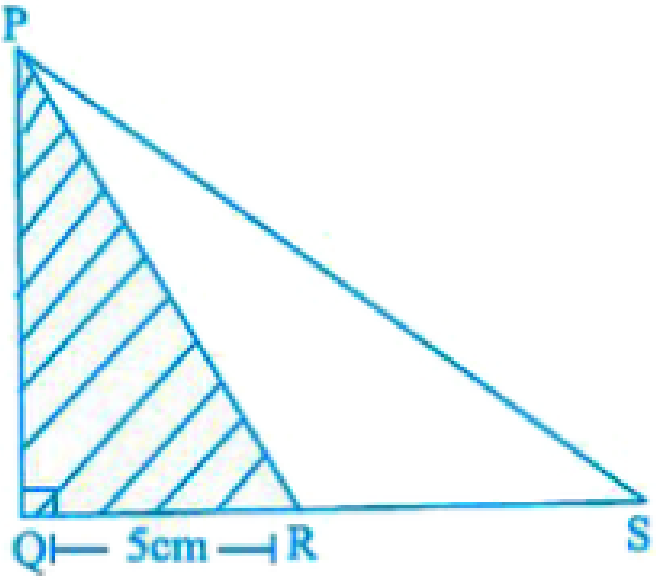
60. Altitudes MN and MO of parallelogram MGHK are 8 cm and 4 cm long respectively

(Fig. 9.40). One side GH is 6 cm long. Find the perimeter of MGHK.



Watch Video Solution

61. In Fig| 9.41, area of ΔPQR is 20 cm and area of $\Delta POSis44cm^2$ Find the length RS, if PO is perpendicular to OS and QR is 5cm.



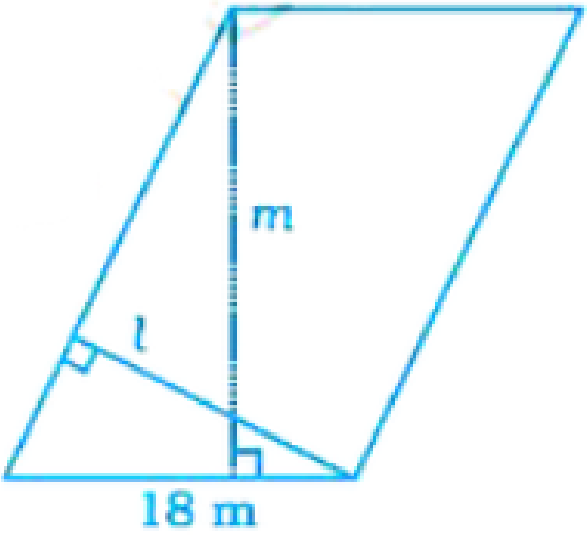
Watch Video Solution

62. Area of an isosceles triangle is $48cm^2$. If the altitudes corresponding to the base of the triangle is 8 cm, find the perimeter of the triangle.

Watch Video Solution

63. Perimeter of a parallelogram shaped land is 96 m and its area is 270 square metres! If one of the sides of this parallelogram is 18 m, find the length of the other side! Also, find the

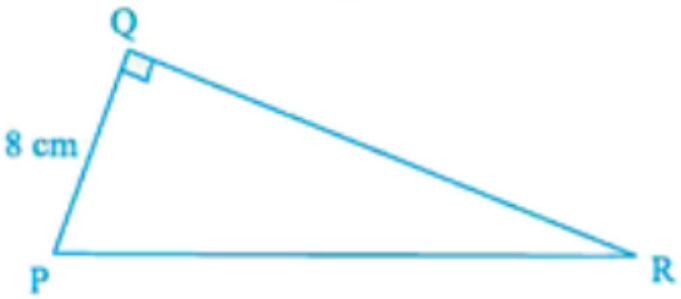
lengths of altitudes 1 and m (Fig. 9.42).



Watch Video Solution

64. Area of a triangle PQR right-angled at gis $60cm^2$ (Fig. 9.43). If the smallest side is 8cm

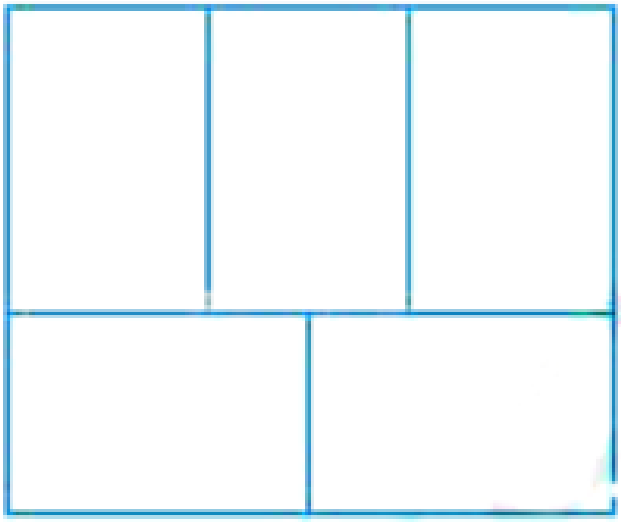
long, find the length of the other two sides.



Watch Video Solution

65. In Fig. 9.44 a rectangle with perimeter 264 cm is divided into five congruent rectangles.

Find the perimeter of one of the rectangles.

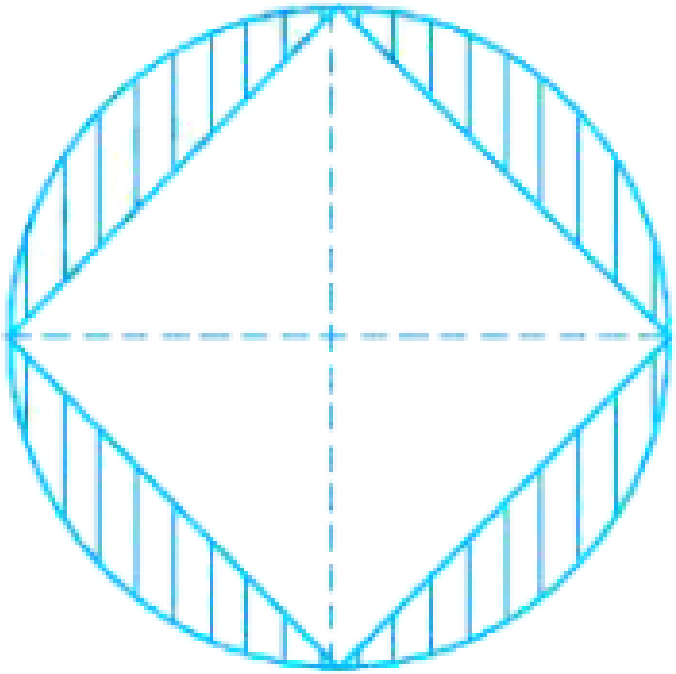


Watch Video Solution

66. Find the area of a square inscribed in a circle whose radius is 7 cm (Fig. 9.45).

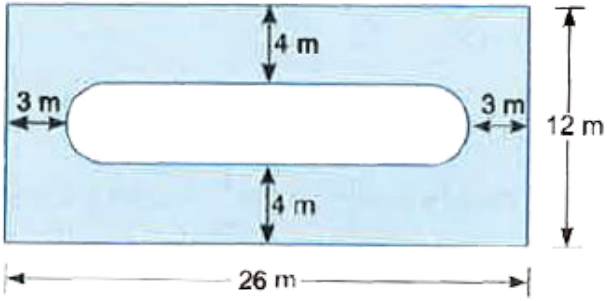
(Hint: Four right-angled triangles joined at

right angles to form a square]



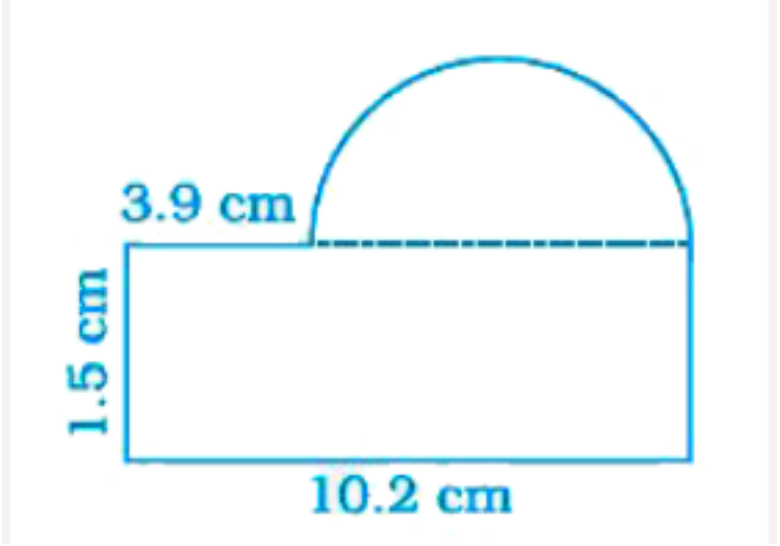
Watch Video Solution

67. Find the area of the shaded region in



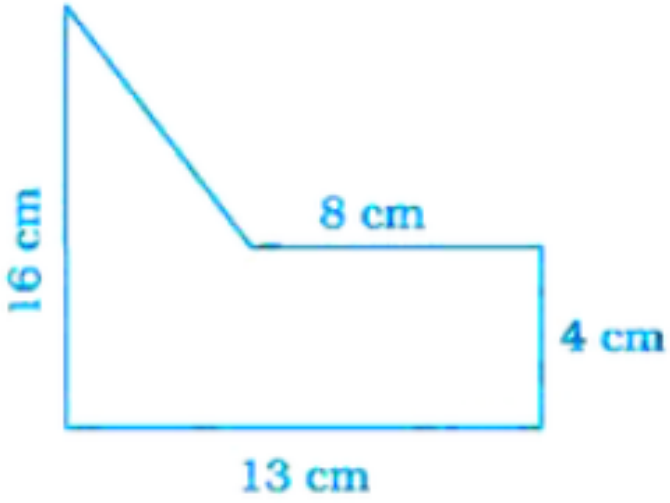
Watch Video Solution

68. In Question find the area enclosed by each of the following figurs:



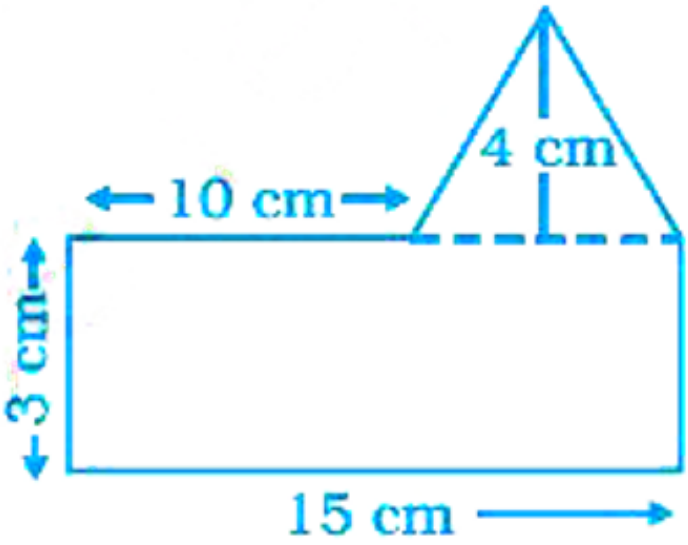
Watch Video Solution

69. In Question find the area enclosed by each of the following figurs:



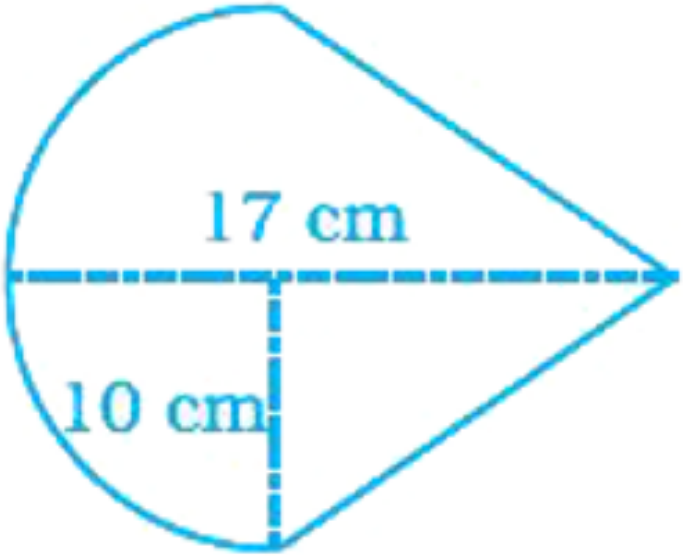
Watch Video Solution

70. In Question find the area enclosed by each of the following figurs:



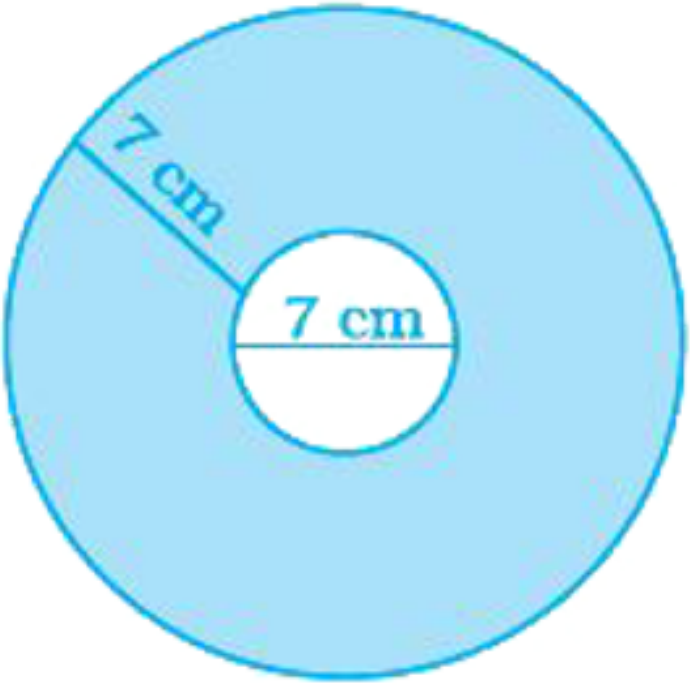
Watch Video Solution

71. In Question find the area enclosed by each of the following figurs:



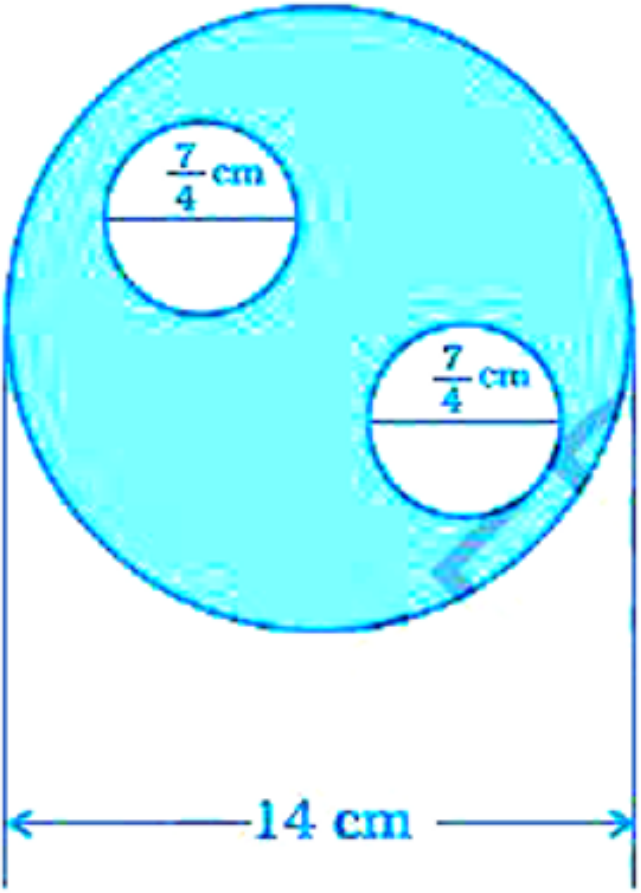
Watch Video Solution

72. Find the area of shaded region



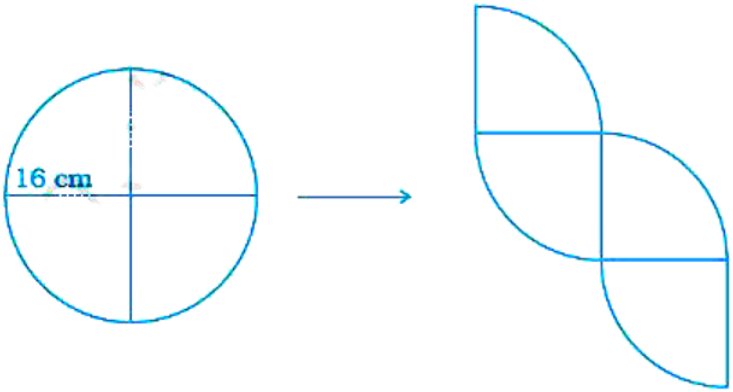
Watch Video Solution

73. Find the area of shaded region



Watch Video Solution

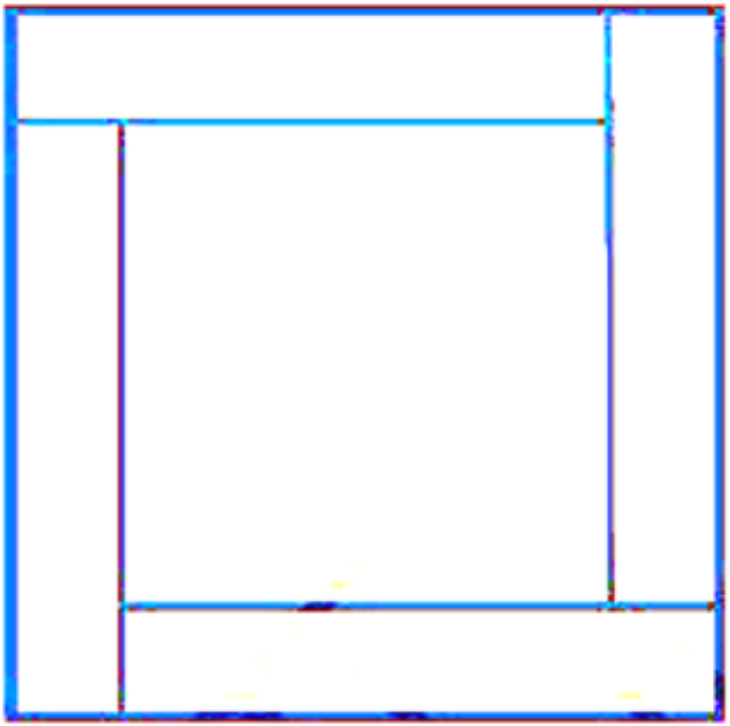
74. A circle with radius 16 cm is cut into four equal parts and rearranged to form another shape as shown in Fig. 9.52:



Does the perimeter change? If it does change, by how much does it increase or decrease?

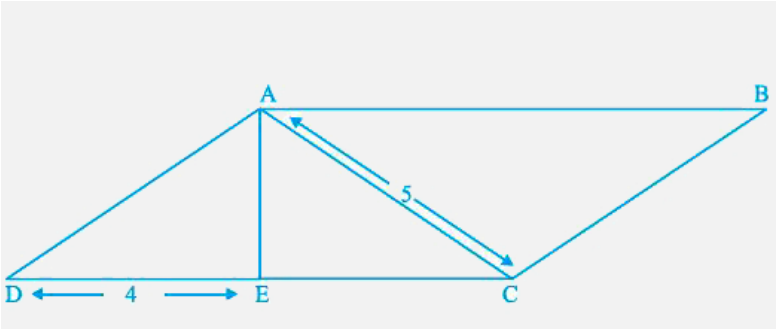
Watch Video Solution

75. A large square is made by arranging a small square surrounded by four congruent rectangles as shown in Fig. 9.53. If the perimeter of each of the rectangle is 16 cm, find the area of the large square.



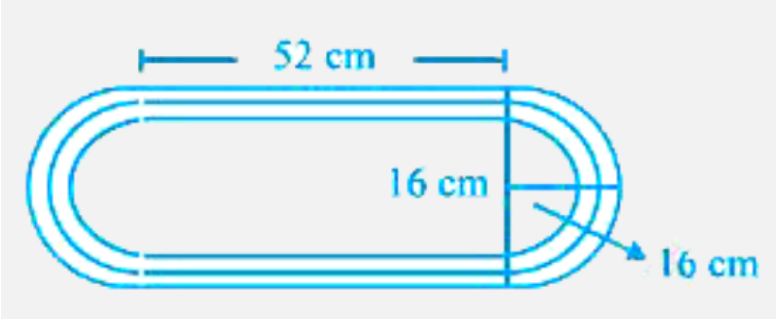
Watch Video Solution

76. ABCD is a parallelogram in which AE is perpendicular to CD (Fig. 9.54). Also AC = 5 cm, DE = 4 cm, and the area of $\Delta AED = 6cm^2$. Find the perimeter and area of ABCD.



Watch Video Solution

77. Ishika has designed a small oval race track for her remote control car. Her design is shown in the figure 9.55. What is the total distance around the track? Round your answer to the nearest whole cm.



Watch Video Solution

78. A table cover, $4\,m\ \times 2\,m,$ is spread on a meeting table. If 25 cm of the table cover is hanging all around the table, find the cost of polishing the table top at Rs. 2.25 per square metre.

Watch Video Solution

79. The dimensions of a plot are 200 m x 150 m. A builder builds 3 roads which are 3 m wide along the length on either side and one in the

middle. On either side of the middle road he builds houses to sell. How much area did he get for building the houses?

Watch Video Solution

80. A room is 4.5 m long and 4 m wide. The floor of the room is to be covered with tiles of size 15 cm by 10 cm. Find the cost of covering the floor with tiles at the rate of Rs.4.50 per tile.

Watch Video Solution

81. Find the total cost of wooden fencing around a circular garden of diameter 28 m, if 1m of fencing costs 300Rs.

Watch Video Solution

82. Priyanka took a wire and bent it to form a circle of radius 14 cm. Then she bent it into a rectangle with one side 24 cm long. What is the length of the other side?

Watch Video Solution

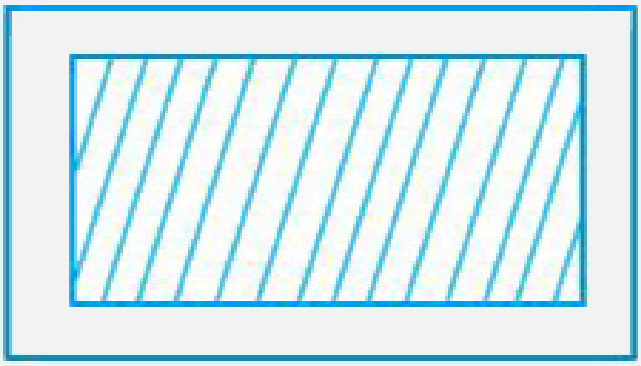
83. How much distance, in metres, a wheel of 25 cm radius will cover if it rotates 350 times?

Watch Video Solution

84. A circular pond is surrounded by a 2 m wide circular path. If outer circumference of circular path is 44 m, find the inner circumference of the circular path. Also find area of the path.

Watch Video Solution

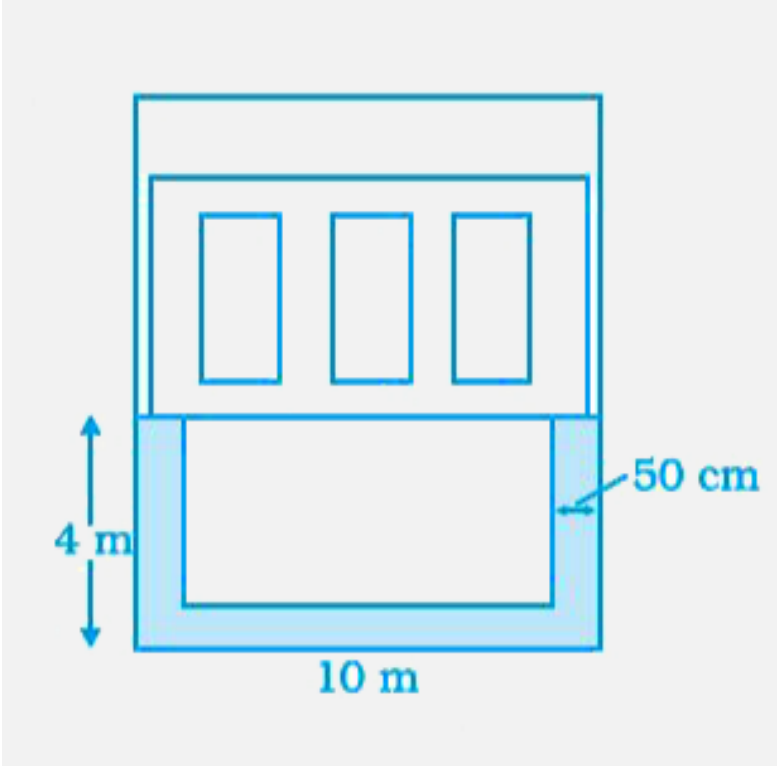
85. A carpet of size 5 mx 2 m has 25 cm wide red border. The inner part of the carpet is blue in colour (Fig. 9.56). Find the area of blue portion. What is the ratio of areas of red portion to blue portion?



Watch Video Solution

86. A 10 m long and 4 m wide rectangular lawn is in front of a house. Along its three sides a 50 cm wide flower bed is there as shown in Fig.

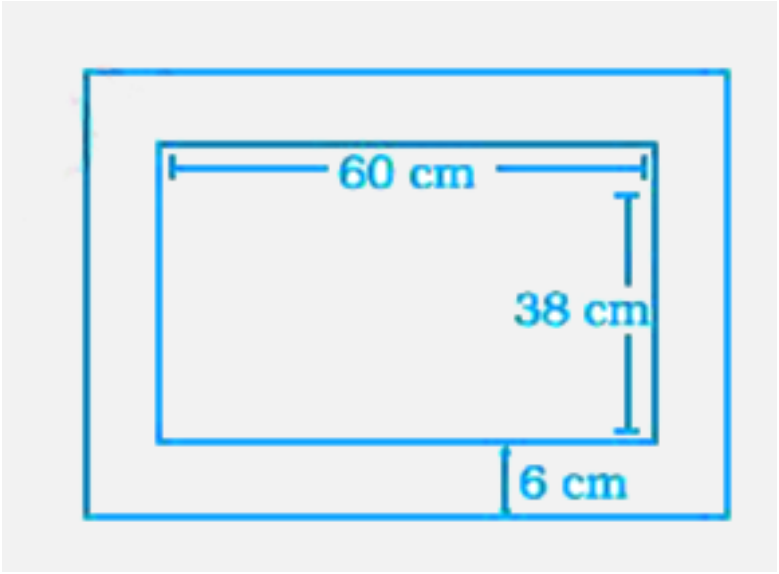
9.58. Find the area of the remaining portion.



Watch Video Solution

87. Dimensions of a painting are 60 cm x 38 cm. Find the area of the wooden frame of

width 6 cm around the painting as shown in Fig. 9.62.



Watch Video Solution

88. A rectangular field is 48 m long and 12 m wide. How many right triangular flower beds

can be laid in this field, if sides including the right angle measure 2 m and 4 m, respectively?

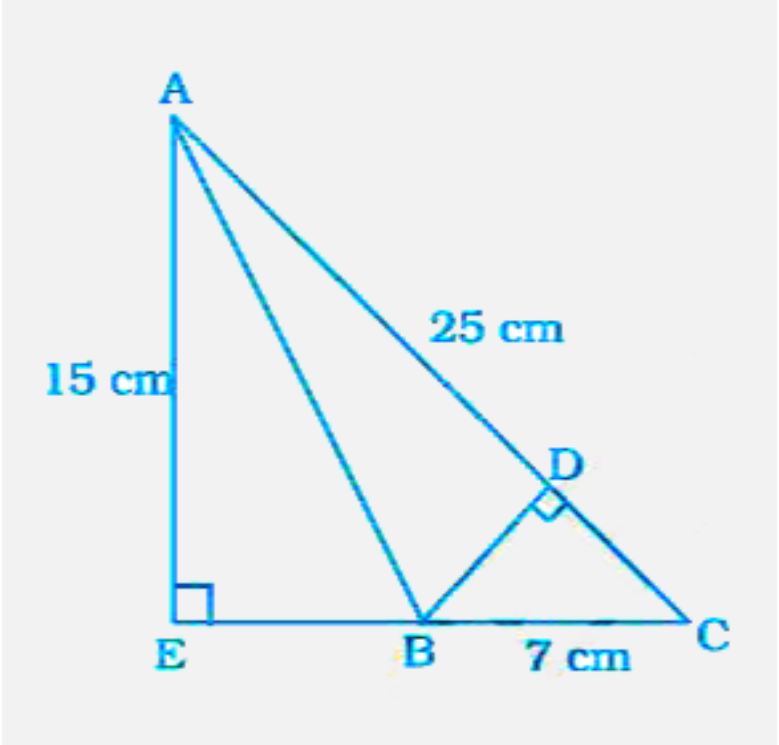
Watch Video Solution

89. Ramesh grew wheat in a rectangular field that measured 32 metres long and 26 metres wide. This year he increased the area for wheat by 650 square metres, by increasing the length but not the width. What is the length of the expanded wheat field?

Watch Video Solution

90. In Fig. 9.65, triangle AEC is right-angled at E, B is a point on EC, BD is the altitude of triangle ABC, AC = 25 cm, BC = 7 cm and AE = 15 cm. Find the area of triangle ABC and the

length of DB.



Watch Video Solution

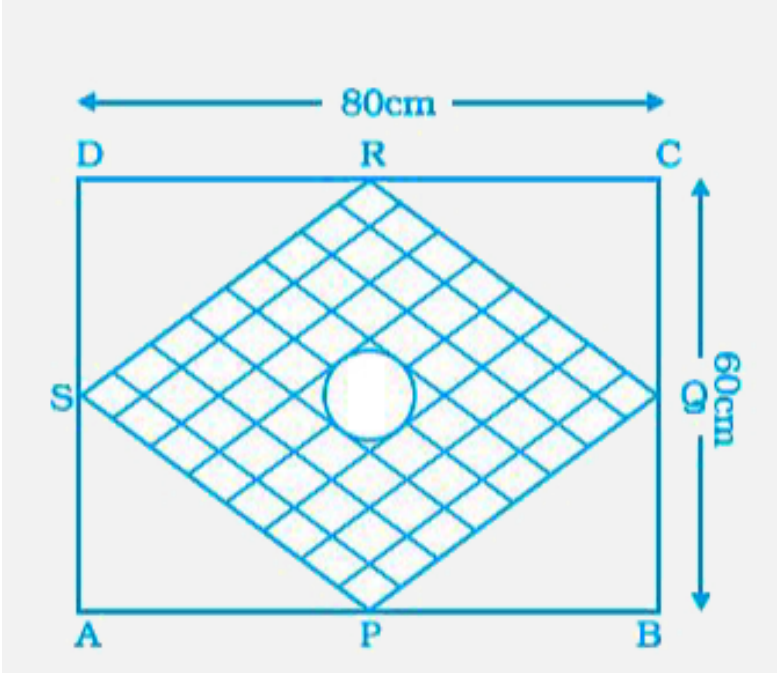
91. If the sum of second and tenth terms of an arithmetic sequence is equal to 12, then find

the sum of fourth, sixth and eighth terms.

Watch Video Solution

92. ABCD is a given rectangle with length as 80 cm and breadth as 60 cm. P. G. R, S are the mid points of sides AB, BC, CD, DA respectively. A circular rangoli of radius 10 cm is drawn at the centre as shown in Fig. 9.69. Find the area of

shaded portion.



Watch Video Solution

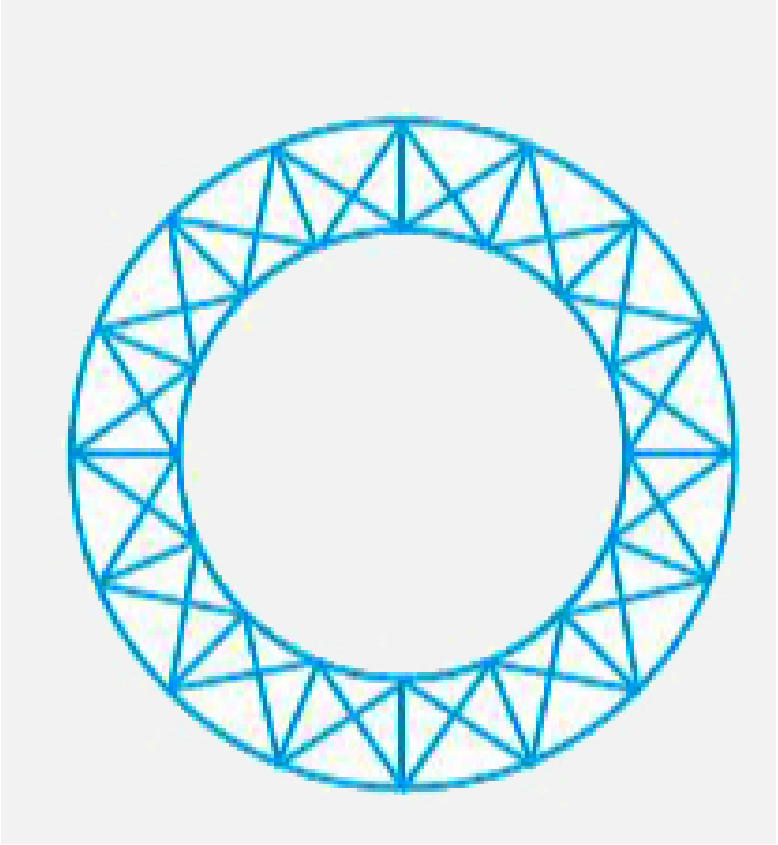
93. 4 squares each of side 10 cm have been cut from each corner of a rectangular sheet of

paper of size 100 cm x 80 cm. From the remaining piece of paper, an isosceles right triangle is removed whose equal sides are each of 10 cm length. Find the area of the remaining part of the paper.

Watch Video Solution

94. A dinner plate is in the form of a circle. A circular region encloses a beautiful design as shown in Fig. 9.70. The inner circumference is 352 mm and outer is 396 mm. Find the width

of circular design.

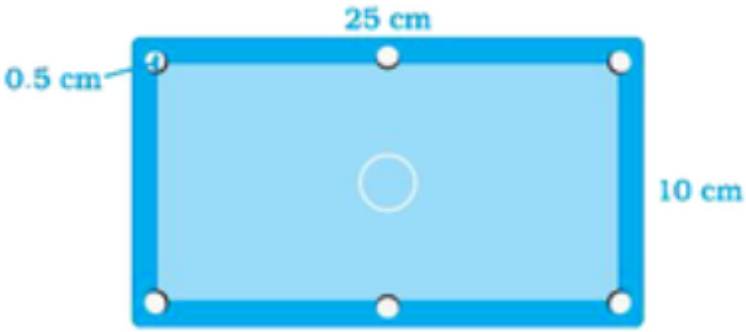


Watch Video Solution

95. The moon is about 384000 km from earth and its path around the earth is nearly circular. Find the length of path described by moon in one complete revolution. (Take $\pi = 3.14$)

Watch Video Solution

96. A photograph of Billiard/Snooker table has dimensions as to th of its actual size as shown in Fig. 9.71:



The portion excluding six holes each of diameter 0.5 cm needs to be polished at rate of 200 per mo. Find the cost of polishing.

Watch Video Solution

Exercise Fill In The Blanks

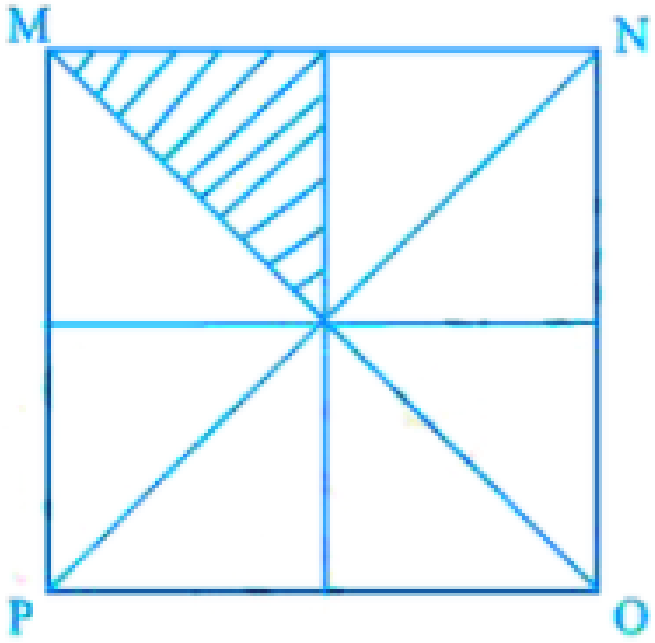
1. The perimeter of a polygon is the ttal length of its sides. In a regular polygon of n sids with x as the length of a side, the perimeter P is_____

Watch Video Solution

2. If a wire in the shape of a square is rebent into a rectangle, then the _____ of both shapes remain same, but _____ may vary.

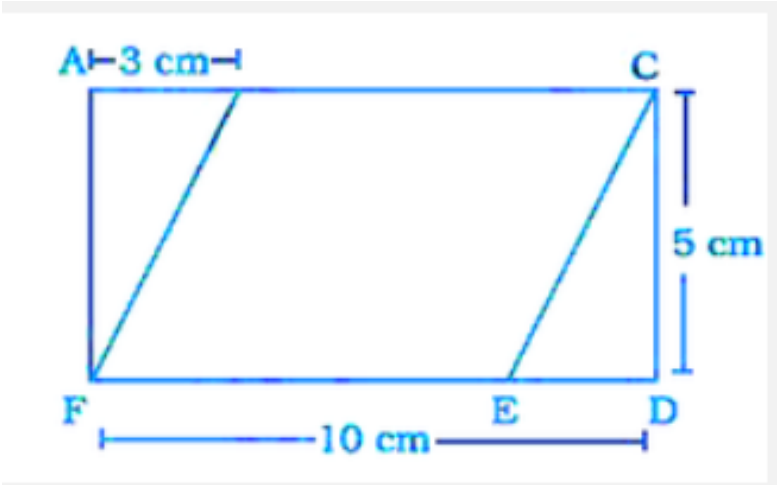
Watch Video Solution

3. Area of the square MNOP of Fig. 9.24 is $144cm^2$ Area of each triangle is_____ .



Watch Video Solution

4. In Fig. 9.25, area of parallelogram BCEF is _____ cm^2 where ACDF is a rectangle.



Watch Video Solution

5. Find the sides of the parallelogram

Watch Video Solution

6. Area of a parallelogram = Base xx Altitude

Watch Video Solution

7. The distance around a circle is its _____ .

Watch Video Solution

8. Ratio of the circumference of a circle to its diameter is denoted by symbol _____ .

Watch Video Solution

9. If area of a triangular piece of cardboard is $90cm^2$, then the length of altitude corresponding to 20 cm long base is _____ cm.

Watch Video Solution

10. Value of π is _____ approximately.

Watch Video Solution

11. Circumference 'C' of a circle can be found by multiplying diameter 'd with _____ .

Watch Video Solution

12. Circumference 'C' of a circle is equal to $2\pi \times$ _____.

Watch Video Solution

13. $1m^2 =$ _____ cm^2

Watch Video Solution

14. $1cm^2 =$ _____ mm^2

Watch Video Solution

15. 1 hectate = _____ m^2

Watch Video Solution

16. Area of a triangle = $\frac{1}{2}$ base $\times$ _____ .

Watch Video Solution

17. $1Km^2 =$ _____ m^2

Watch Video Solution

18. Area of a square of side 6 m is equal to the area of ____ squares of each side 1 cm.

Watch Video Solution

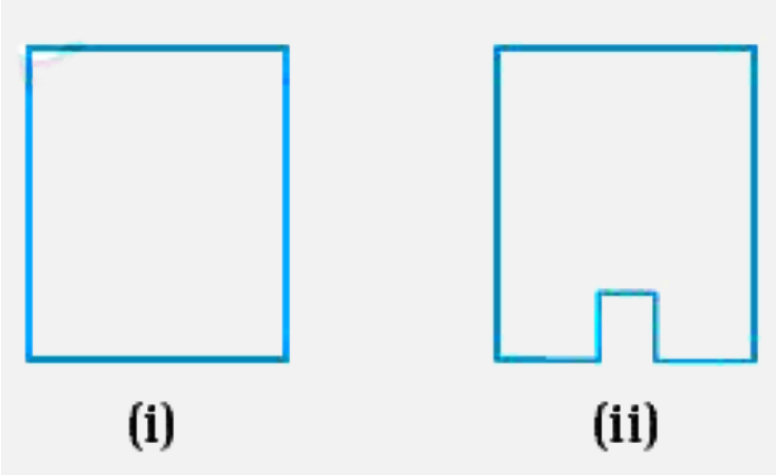
19. solve $10cm^2 = \_\_\_\_\_ \ m^2$

Watch Video Solution

Exercise True Or False

1. In Fig. 9.26. perimeter of (ii) is greater than that of (i), but its area is smaller than that of

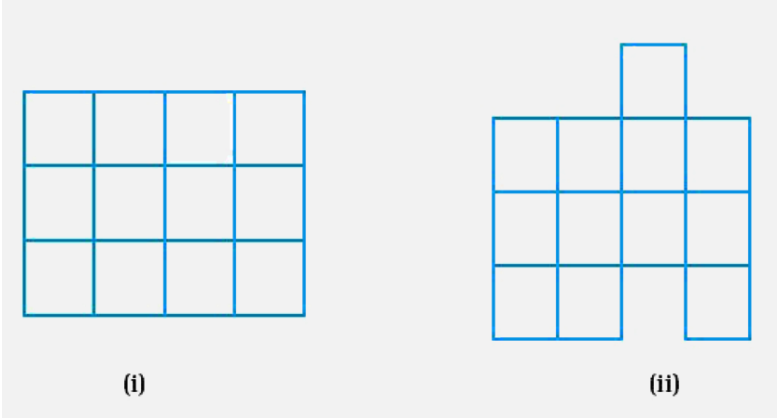
(i).



Watch Video Solution

2. In Fig. 9.27

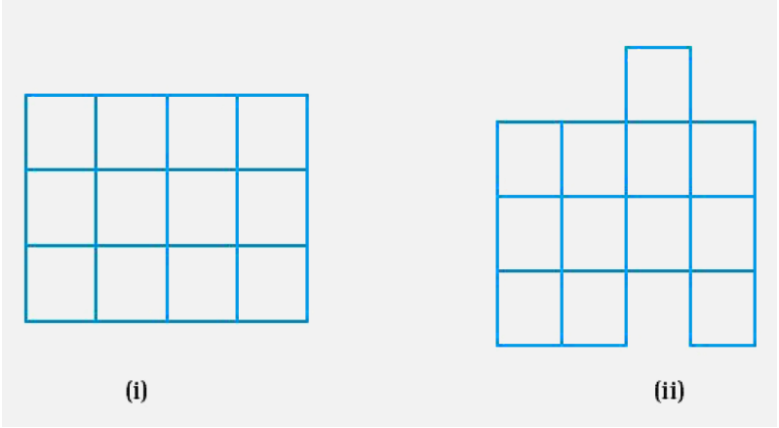
area of (i) is the same as the area of (ii).



Watch Video Solution

3. In Fig. 9.27

Perimeter of (ii) is the same as (i).

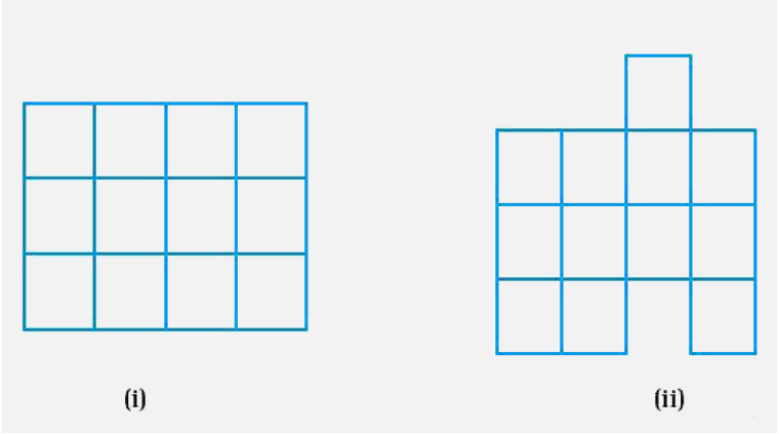


Watch Video Solution

4. In Fig. 9.27

If (ii) is divided into squares of unit length,

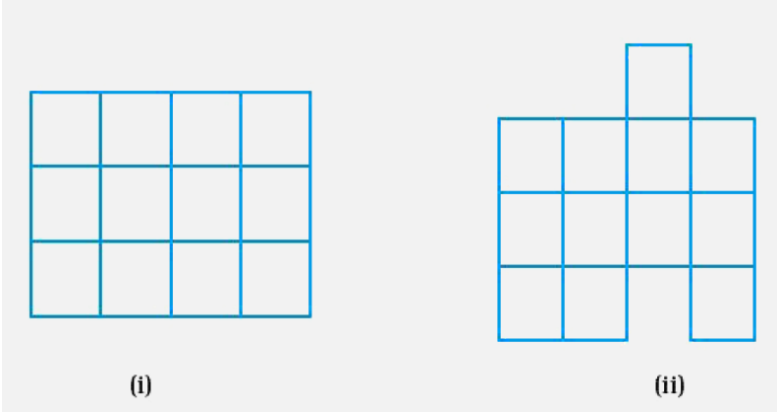
then its area is 13 unit squares.



Watch Video Solution

5. In Fig. 9.27 if 1 box is of unit length

Perimeter of (ii) is 18 units.



Watch Video Solution

6. If perimeter of two parallelograms are equal, then their areas are also equal.

Watch Video Solution

7. All congruent triangles are equal in area.

Watch Video Solution

Think And Discuss

1. Find the area of rectangle whose perimeter is 36 cm and one side is of length 11 cm.

Watch Video Solution

2. Can you frame. Question in which areas of all the plane figures rctangle. Square, triangle and a parallelogram are to be calculated?

Watch Video Solution

3. Compare the area of a rectangle with base b and height h with the area of a rectangle with base 2b and height 2h.

Watch Video Solution

4. Express the formulas for the area and perimeter of a square using s for the length of a side.

Watch Video Solution

5. Give the formula for the area of a circle in terms of the diameter d.

Watch Video Solution

6. Describe what happens to the area of a triangle when the base is doubled and the height remains the same.

Watch Video Solution

7. Describe what happens to the area of a parallelogram when the length of its base is doubled but the height remains the same.

Watch Video Solution