



MATHS

BOOKS - ICSE

MENSURATION

Examples

1. Find the perimeter of :

a triangle having sides of lengths 5.5 cm , 6 cm and 6.5 cm.

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2. Find the perimeter of :

a rectangle of length 8.5 cm and breadth 5.5 cm.

A. = 25 cm.

B. = 28 cm.

C. = 26 cm.

D. = 27 cm.

Answer: B



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3. Find the perimeter of :

a square of side 7.4 cm.

A. = 30.6 cm.

B. = 32.6 cm.

C. = 35.6 cm.

D. = 29.6 cm.

Answer: D



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4. If the perimeter of a rectangular piece of land is 424 m and its breadth is 85 m , find its length .

A. = 147 m.

B. = 129 m.

C. = 127 m.

D. = 137 m.

Answer: C



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5. If the circumference of a circle is 110 cm , find its radius .

A. 19.5 cm.

B. 17.5 cm.

C. 18.5 cm.

D. 15.5 cm.

Answer: B



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6. When a cyclist rides a cycle the wheel of the cycle having radius 77 cm makes 500 revolutions in 5 minutes .Find the speed of the cycle in km per hour . (Take $\pi = \frac{22}{7}$)



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7. A wire is bent in to the form of a square of side 27.5 cm . It is straightened and then bent into the shape of a circle What is the radius of the circle so formed ?

A. = 18.5 cm

B. = 19.5 cm

C. = 17.5 cm

D. = 20.5 cm

Answer: C



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8. Convert :

$12m^2$ to cm^2



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9. Convert :

$8cm^2$ "to" $mm^{(2)}$



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10. Convert :

$2.5m^2$ to mm^2



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11. Convert :

$6000m^2$ to ares



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12. Convert :

$35000m^2$ to hectares



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13. Convert :

1.8 hectares to acres





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14. Find the perimeter and area of a rectangle of length 16 cm and breadth 12.5 cm .



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15. The perimeter of a rectangular field is 216 metres and its breadth is 40 metres . Find the length and area of the rectangle.

A. = $4720m^2$.

B. = $3720m^2$.

C. = $2920m^2$.

D. = $2720m^2$.

Answer: D



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16. The area of a rectangular park is $3392m^2$ and its breadth is 53 meters

Find the perimeter of the park .

A. = 234 m.

B. = 334 m.

C. = 434 m.

D. = 534 m.

Answer: A



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17. The dimensions of a room are 11.2 m by 9 m . The floor of the room is to be covered by marble tiles , each measuring 24 cm by 24 cm . Find the total number of tiles required . What is the cost of tiling the floor at Rs. 106 per tile ?



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18. Find the perimeter and area of a square of side 9 cm .

A. = 86cm^2

B. = 81cm^2

C. = 91cm^2

D. = 71cm^2

Answer: B



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19. The perimeter of a square plot of land is 144 metres . Find its area.

A. = 1286m^2

B. = 1296m^2

C. = 1276m^2

D. = 1206m^2

Answer: C



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20. The area of a garden in the shape of a square is 5184 m^2 . Find its perimeter .

A. = 388 m.

B. = 288 m.

C. = 188 m.

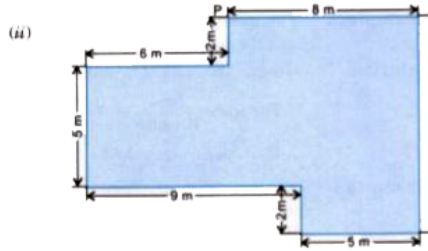
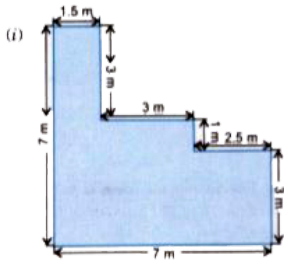
D. = 298 m.

Answer: B



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21. Find the area and the perimeter of the shaded figures ,given below :



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22. The area of a square field is 64 hectares .Find the cost of fencing it with wire at Rs. 21.50 per metre .

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23. A rectangular garden is 120 m long and 65 m broad .A path of uniform width of 5 m has to be constructed around it on its outside .Find the cost of gravelling the path at Rs. 11.40 per m^2 .

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24. A saree 4 m long and 1.25 m wide has a border of width 25 cm all around it on the inside .Find the cost of knitting the border at 20 paise per cm^2 .

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25. A rectangular lawn 76 m long and 54 m broad has two cross - roads ,one 1.5 m wide running parallel to its length and the other 2 m wide , running parallel to its breadth. Find the cost of constructing these roads at Rs. 216 per m^2 .

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26. A square lawn is surrounded by path 2 m wide around it, If the area of the path is $120m^2$, find the area of the lawn.

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27. The base of a triangle is 36 cm and its corresponding height is 13 cm .

Find the area of the triangle .

A. = 534cm^2 .

B. = 224cm^2 .

C. = 334cm^2 .

D. = 234cm^2 .

Answer: D



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28. The base and height of a triangle are in the ratio 7: 4 If the area of the triangle is 87.5cm^2 , find its base and height .



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29. Find the area of a triangle whose sides are 28 cm , 21 cm and 35 cm .
Also find the length of the altitude corresponding to the largest side of the triangle .



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30. Find the area and height of an equilateral triangle of side 8 cm (Take $\sqrt{3} = 1.73$).



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31. Find the area of a right triangle whose hypotenuse measures 17 cm and one of the other two sides 8 cm .

A. = $65cm^2$.

B. = $50cm^2$.

C. = $60cm^2$.

$$D. = 70\text{cm}^2.$$

Answer: C



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32. The base of a triangular field is three times its height . If the cost of cultivating the field at Rs. 367.20 per hectare is Rs. 4957.20 find its base and height.



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33. Find the of area of the parallelogram having :

base = 16.5 cm and height =6.8 cm



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34. Find the of area of the parallelogram having :

base = 1.6 m and height = 45 cm

A. = $0.82m^2$

B. = $0.72m^2$

C. = $0.92m^2$

D. = $0.62m^2$

Answer: B



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35. The base of a parallelogram is one - third of it's height, the area of this parallelogram is $147cm^2$, find its height .

A. = 24 cm .

B. = 21 cm .

C. = 22 cm .

D. = 23 cm .

Answer: B



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36. The area of a parallelogram PQRS is 162cm^2 This parallelogram has adjacent sides $PQ = 27$ cm and $QR = 12$ cm . Find the distance between its longer sides and that between its shorter sides .



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37. ABCD is a parallelogram whose adjacent sides $AB = 48$ cm and $BC = 14$ cm . One of its diagonals $AC = 50$ cm . Find :

- (i) the area of the parallelogram ABCD.
- (ii) the distance between the longer sides.
- (iii) the distance between the shorter sides.



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38. Find the area of the rhombus , the lengths of whose diagonals are 17.5 cm and 22.4 cm.



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39. Find the area of a rhombus having each side equal to 17 cm and one of its diagonal equal to 30 cm .

A. 440cm^2 .

B. 340cm^2 .

C. 240cm^2 .

D. 540cm^2 .

Answer: C



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40. Find the area of a circle of radius 5.6 cm.

A. 58.56cm^2 .

B. 78.56cm^2 .

C. 98.56cm^2 .

D. 88.56cm^2 .

Answer: C



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41. Find the area of a circle whose circumference is 66 cm .



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42. The area of a circular field is 2464 m^2 . Find the cost of fencing it at the rate of Rs. 6.50 per metre .

A. Rs. 2144.

B. Rs. 1144.

C. Rs. 1244.

D. Rs. 1844.

Answer: B



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43. A circular running track has inner radius 126 m and outer radius 140 m . Find the area of the track .



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Exercise 23 A

1. Find the perimeters of :

A triangle ABC having sides of lengths , $AB=7$ cm , $BC =5$ cm , $AC = 8.5$ cm



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2. Find the perimeters of :

A rectangle of length 12 cm and breadth 7.5 cm .



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3. Find the perimeters of :

A square having each side of length 4.5 cm.



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4. Find the perimeters of :

A rhombus having each side of length 6.3 cm .



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5. A rectangular field has perimeter 186 m and breadth 35 m . Find its length .



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6. Find the length of each side of a square plot having perimeter 172 m.



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7. A rectangular plot is 125 m long and 72 m broad . Find the cost of fencing it at Rs. 27 per metre.

A. Rs. 10645

B. Rs. 10638

C. Rs. 10639

D. Rs. 10649

Answer: B



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8. Find the circumference of a circle of radius 17.5 cm . (Take $\pi = \frac{22}{7}$)



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9. The circumference of a circular garden is 66 m . Find its diameter.(Take $\pi = \frac{22}{7}$)

A. 25 m

B. 24 m

C. 21 m

D. 27 m

Answer: C



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10. The diameter of a wheel of a car is 1.12 m . Find the distance covered by the car in making 5000 revolutions by its wheels . (Take $\pi = \frac{22}{7}$)

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11. The radius of a wheel of a cycle is 70 cm and it takes 5 minutes to make 3000 rotations . Find the speed of the cycle in km per hour . (Take $\pi = \frac{22}{7}$).

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12. How many revolutions would a cycle wheel of diameter 1.6 m make to cover a distance of 352 metres ? (Take $\pi = \frac{22}{7}$)

A. 35

B. 70

C. 71

D. 40

Answer: B

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13. A wire is bent in the form of a square of side 16.5 cm . It is straightened and then bent into a circle. What is the radius of the circle so formed ?

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

A. 16.5 cm

B. 11.5 cm

C. 10.5 cm

D. 12.5 cm

Answer: C

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14. A wheel of a car rotated 1000 times in travelling a distance of 1.76 km .

Find the radius of the wheel . (Take $\pi = \frac{22}{7}$)

A. 58 cm

B. 48 cm

C. 38 cm

D. 28 cm

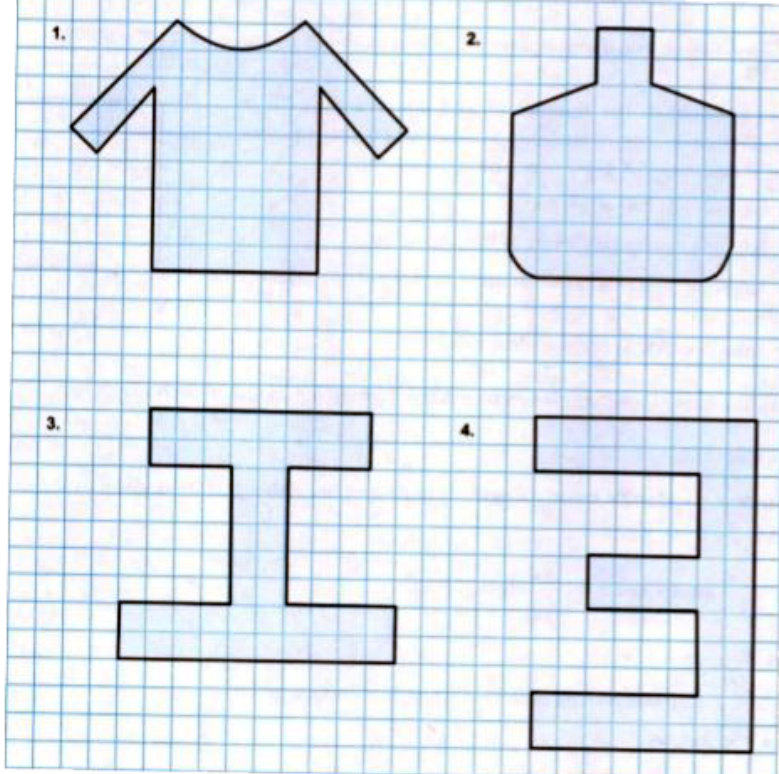
Answer: D



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Exercise 23 B

1. Find the area of each of the figures drawn on the unit square grid paper given below :



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Exercise 23 C

1. Find the perimeter and area of a rectangle having :

Length = 16 cm , Breadth = 12 cm



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2. Find the perimeter and area of a rectangle having :

Length = 9.6 cm , Breadth = 1.5 cm



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3. Find the perimeter and area of a rectangle having :

Length = 8 m , Breadth = 9 dm



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4. Find the perimeter and area of a rectangle having :

Length = 6 hm , Breadth = 8 dam



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5. Find the perimeter and area of a rectangle having :

Length = 1 m 25 cm , Breadth = 8 cm





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6. Find the perimeter and area of a square whose side measures :

14 cm



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7. Find the perimeter and area of a square whose side measures :

3.5 cm



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8. Find the perimeter and area of a square whose side measures :

1m 20 cm



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9. The perimeter of a rectangular plot of land is 240 m and its length is 63 m . Find the breadth and area of the plot.

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10. The perimeter of a rectangular grassy plot is 189 m and its breadth is 10.5 m . Find the length and area of the plot .

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11. A rectangular garden is 175 m long and 96 m broad . Find the cost of fencing it at Rs.17.50 per metre .Also ,find the cost of ploughing it at Rs. 4.50 paise per square metre.

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12. Square tiles of side 20 cm are to be laid on the floor of a room 10 m by 4.5 m . How many tiles will be needed ? Find the cost of putting the tiles at Rs. 131 .40 per tile .



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13. The area of a rectangular park is 1560 m^2 and its breadth is 24 m Find the length and perimeter of the park . Also , find the cost of fencing it at Rs. 22.50 per metre.



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14. Find the perimeter of a square whose area is 196 cm^2 .

A. 86 cm

B. 66 cm

C. 56 cm

D. 46 cm

Answer: C



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15. The area of a square field is 1 hectare . What is its perimeter ?



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16. It costs Rs. 5400 to fence a square field at Rs. 13.50 per metre . Find (i) the length of the side of the field (ii) the area of the field.



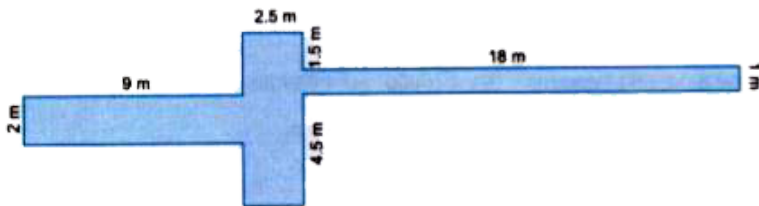
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17. A rectangular plot of l and is 50 m long .The cost of levelling the plot at Rs. 12.50 per m^2 is Rs. 20000. Find (i) the area of the plot , (ii) the bradth of the plot , (iii) the perimeter of the plot .



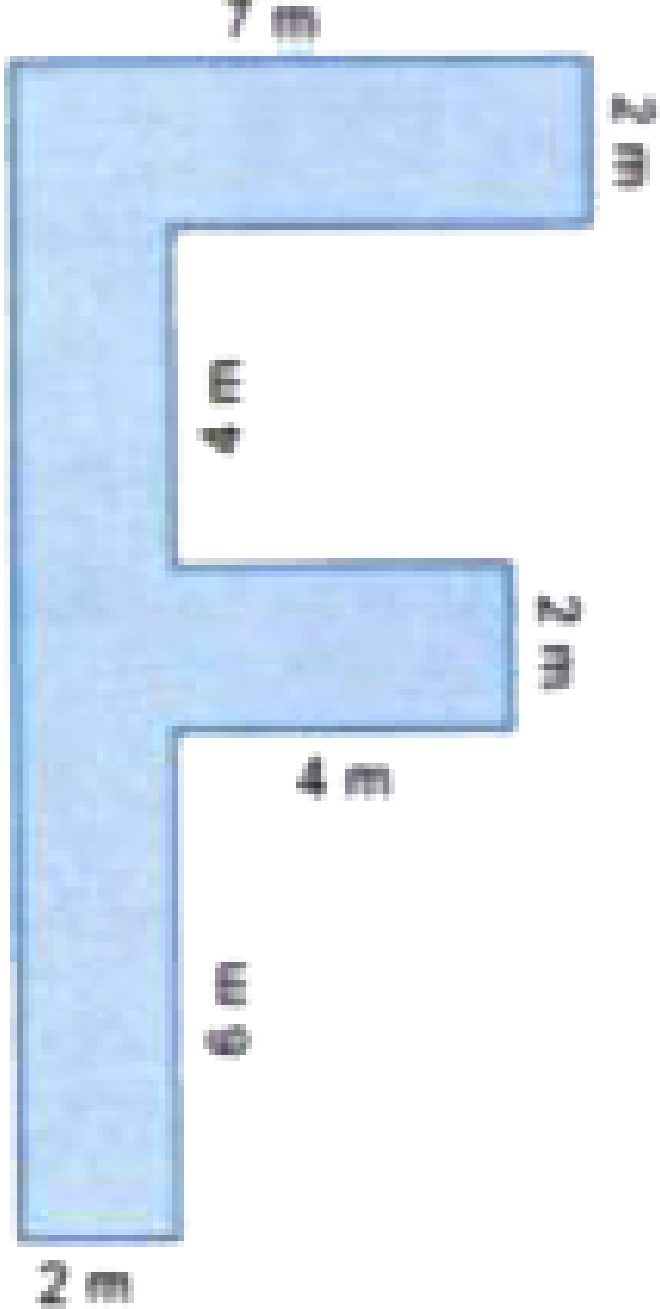
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18. Find the area and perimeter of the shaded part in each of the following figures .



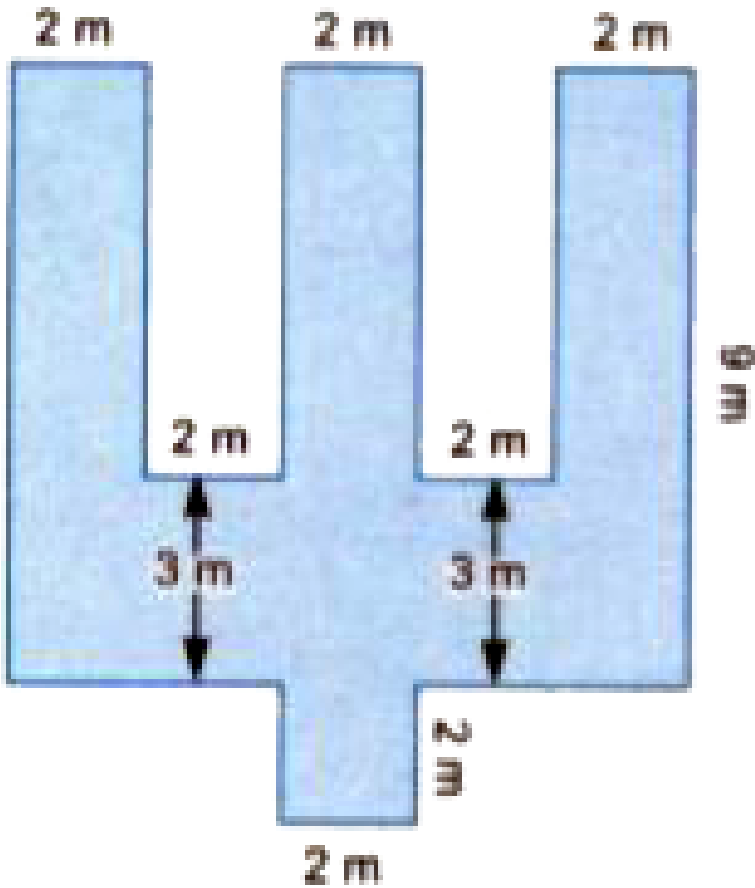
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19. Find the area and perimeter of the shaded part in each of the following figures .



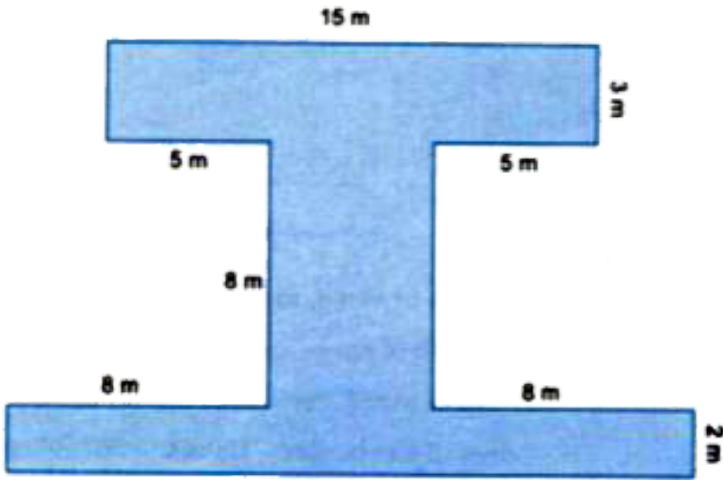
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20. Find the area and perimeter of the shaded part in each of the following figures .



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21. Find the area and perimeter of the shaded part in each of the following figures .



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Exercise 23 D

1. A room is 10 m long and 6 m broad . It is surrounded by a verandah which is 2 m wide all around it . Find the cost of flooring the verandah with marble at Rs. 236 per m^2 .

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2. A hall is 16m long and 12 m broad .Find the cost of carpeting it at Rs. 615 per m^2 after leaving a margin of 1 metre all around .



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3. A sheet of paper measures 35 cm by 25 cm . A strip of 5 cm width is cut from it , all around Find the area of the remaining sheet and also the area of the cut - out strip.



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4. A path 3 m wide is running along the inside of the boundary of a rectangular field 116 m by 76 m . How much money is needed to gravel the path at Rs. 42.50 per m^2 ?



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5. A path 2.5 m wide is running around a rectangular grassy plot 40 m by 35 m . Find the area of the path and the money needed for tilling it Rs . 115.60 per m^2 .

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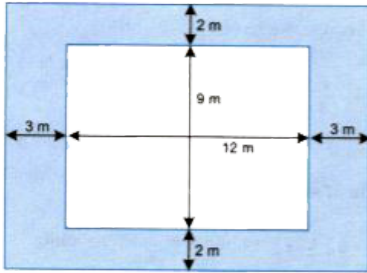
6. A rectangular lawn 115 m long and 64 m broad has two cross - paths at right - angles , one 2 m wide, running parallel to its length and the other 2.5 m wide , running parallel to its breadth . Find the cost of gravelling the padths at Rs. 114 per m^2

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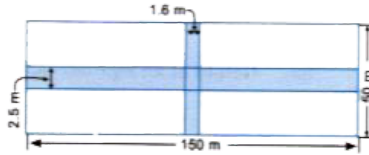
7. The central hall of a school is 22 m long and 15.5 m wide A carpet is to be laid on the floor leaving a strip of 75 cm width from the walls uncovered .Find the area of the strip left incovered .

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8. Find the area of the shaded region in each of the following figure :



(i)



(ii)

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Exercise 23 E

1. Find the area of the triangle ,having :

base = 16 cm , heighth = 7.5 cm

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2. Find the area of the triangle ,having :

base = 5.6 m , heighth = 3.5 m



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3. Find the area of the triangle ,having :

base = 6.4 m , heigth = 8 dm



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4. Find the area of the triangle ,having :

base =9.5 cm , height = 6 mm



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5. Find the height of the triangle whose :

area $28.9m^2$,base = 8.5 m



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6. Find the height of the triangle whose :

$$\text{area} = 56dm^2, \text{ base} = 2.8 \text{ m}$$



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7. Find the base of the triangle whose :

$$\text{area} = 4.2m^2, \text{ height} = 2.4 \text{ m.}$$



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8. Find the base of the triangle whose :

$$\text{area} = 2.4dm^2, \text{ height} = 80 \text{ cm}$$



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9. Find the area of the triangle whose sides are 13 cm , 20 cm and 21 cm .

Also find the height of the triangle corresponding to the largest side .



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10. Find the area of the triangle whose sides are 50 cm , 48 cm and 14 cm .
Find the height of triangle corresponding to the side measuring 48 cm .



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11. Find the area of an isosceles triangle in which each of the equal sides measures 30 cm and the third side is 48 cm long



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12. The base and the height of a triangle are in the ratio 5: 3 and its area is $43.2m^2$. Find the base and the height of the triangle .



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13. Find the area and the height of an equilateral triangle whose each side measures :

12 cm



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14. Find the area and the height of an equilateral triangle whose each side measures :

10 m



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15. Find the area and the height of an equilateral triangle whose each side measures :

6.4 m (Take $\sqrt{3} = 1.73$ in each case)



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16. Find the area of a right triangle whose hypotenuse is 26 cm long and one of the sides containing the right angle measures 10 cm .



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17. The area of a right triangle is 240 cm^2 and one of its legs is 16 cm long . Find the length of the other leg .



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18. The legs of a right triangle are in the ratio 3 : 4 and its area is 1014 cm^2 . Find its hypotenuse.



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19. The sides of a triangle are in the ratio 13 : 14 : 15 and its perimeter is 84 cm . Find the area of the triangle .



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20. The base of an isosceles triangle is 12 cm and its perimeter is 32 cm .
Find its area .



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21. The cost of painting the top surface of a triangular board at 80 paise per square metre is Rs. 176 . 40 . If the height of the board measures 24.5m , find its base .

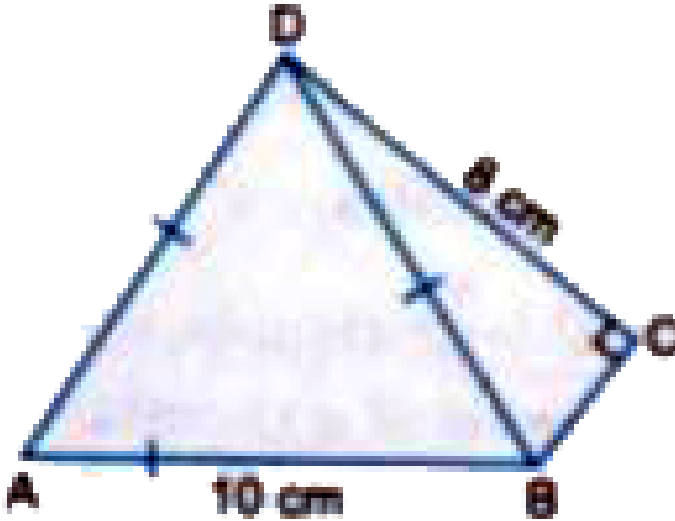


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22. Calculate the area of the quadrilateral ABCD in which

$AB = BD = AD = 10 \text{ cm}$, $\angle BCD = 90^\circ$ and $CD = 8 \text{ cm}$. (Take $\sqrt{3} = 1.732$)

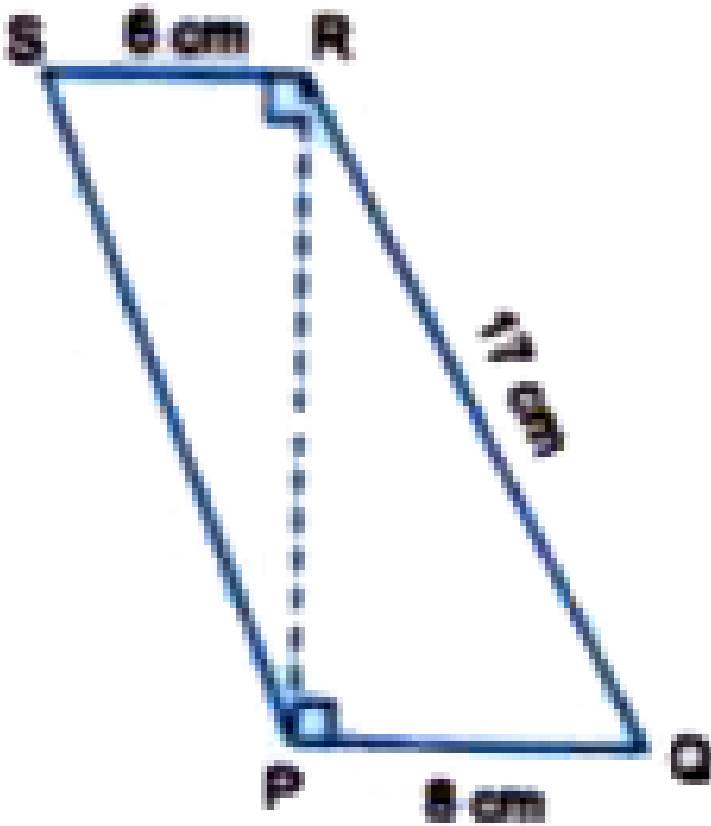
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23. Calculate the area of the quadrilateral PQRS shown in the adjoining figure, it being given that $PR = 8 \text{ cm}$, $RQ = 17 \text{ cm}$,

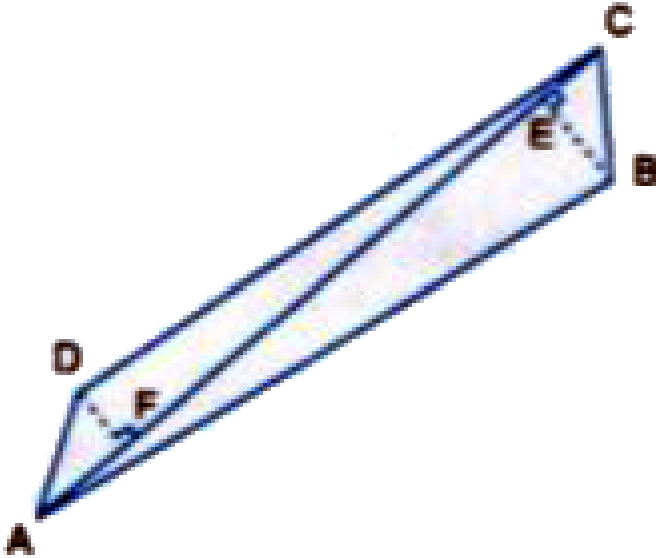
$\angle RPQ = 90^\circ$, $RS = 6\text{ cm}$ and $\angle PRS = 90^\circ$



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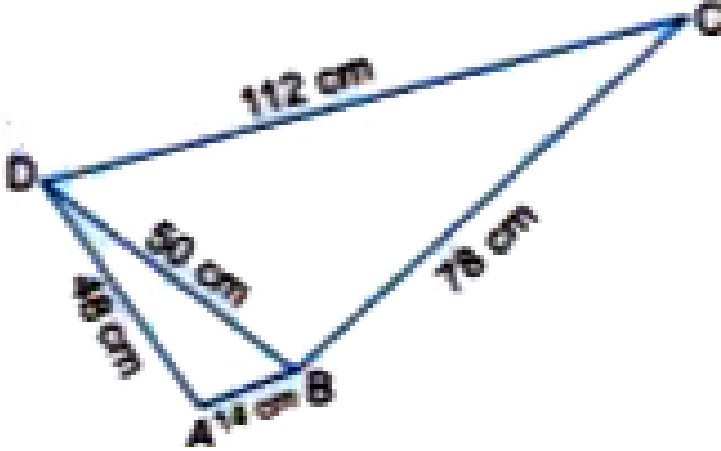
24. Find the area of a quadrilateral ABCD whose diagonal AC is 25 cm long and the lengths of perpendiculars from opposite vertices B and D on AC

are $BE = 3.6$ cm and $DF = 2.4$ cm .



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25. Find the area of the quadrilateral ABCD , given in the adjoining figure in which $AB = 14$ cm , $BC = 78$ cm , $CD = 112$ cm $BD = 50$ cm and $DA = 48$ cm .



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Exercise 23 F

1. Find the area of the parallelogram having :

base = 14.5 cm , height = 2.4 cm

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2. Find the area of the parallelogram having :

base = 3.8 m , height = 1.25 m





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3. Find the area of the parallelogram having :

base = 75 cm, height = 1.4 m



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4. The height of a parallelogram is three-eighths of its base. If the area of the parallelogram is 96cm^2 , find its height and base .



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5. ABCD is a parallelogram having adjacent sides AB = 35 cm and BC = 28 cm . If the distance between its longer sides is 8 cm , find :

(i) the area of the parallelogram

(ii) the distance between its shorts sides



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6. Find the area of rhombus whose diagonals are :

(i) 12 cm , 21 cm

(ii) 17.8 cm , 25 cm



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7. Find the area of a rhombus having each side equal to 20 cm and one of its diagonals equal to 24 cm .



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8. The area of a rhombus is 243 cm^2 .If one of the diagonals is 19.5 cm long , find the length of the other diagonal.



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9. PQRS is a parallelogram whose adjacent sides $PQ = 20$ cm and $QR = 21$ cm one of its diagonals $QS = 13$ cm , find :
the area of the parallelogram PQRS.



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10. PQRS is a parallelogram whose adjacent sides $PQ = 20$ cm and $QR = 21$ cm one of its diagonals $PR = 13$ cm , find :
the distance between the longer sides.



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11. PQRS is a parallelogram whose adjacent sides $PQ = 20$ cm and $QR = 21$ cm one of its diagonals $PR = 13$ cm , find :
the distance between the shorter sides.

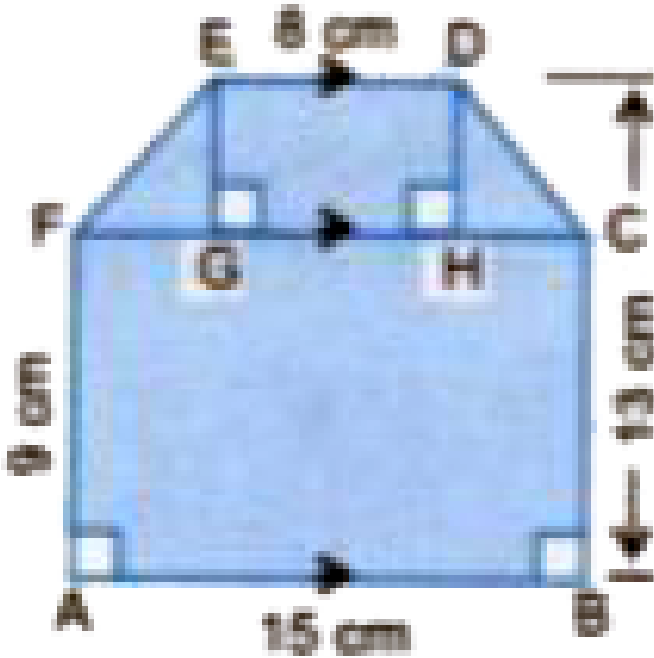


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12. Find the of the shaded region of the adjoining figure , it being given that

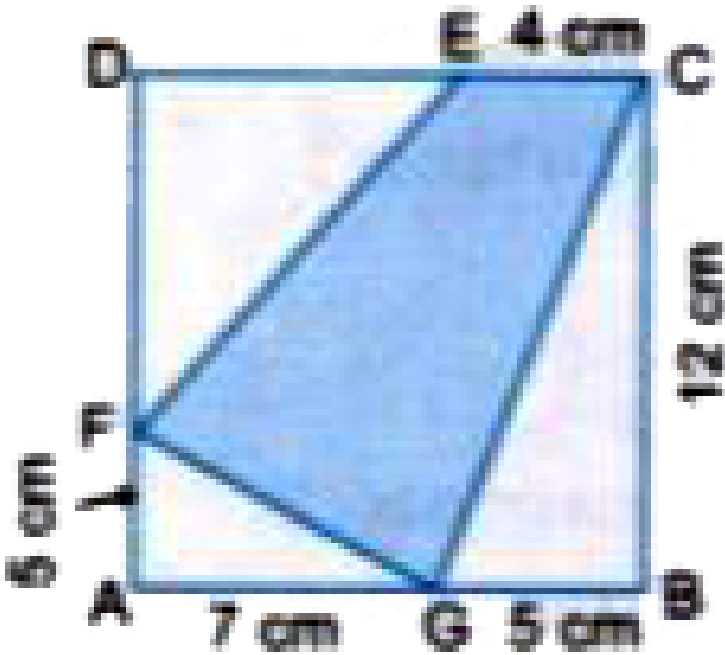
$$\angle FAB = \angle CBA = 90^\circ, ED \parallel AB \parallel FC, EG \perp FC, DH \perp FC, FG = HC$$

and distance between AB and ED = 13 cm.



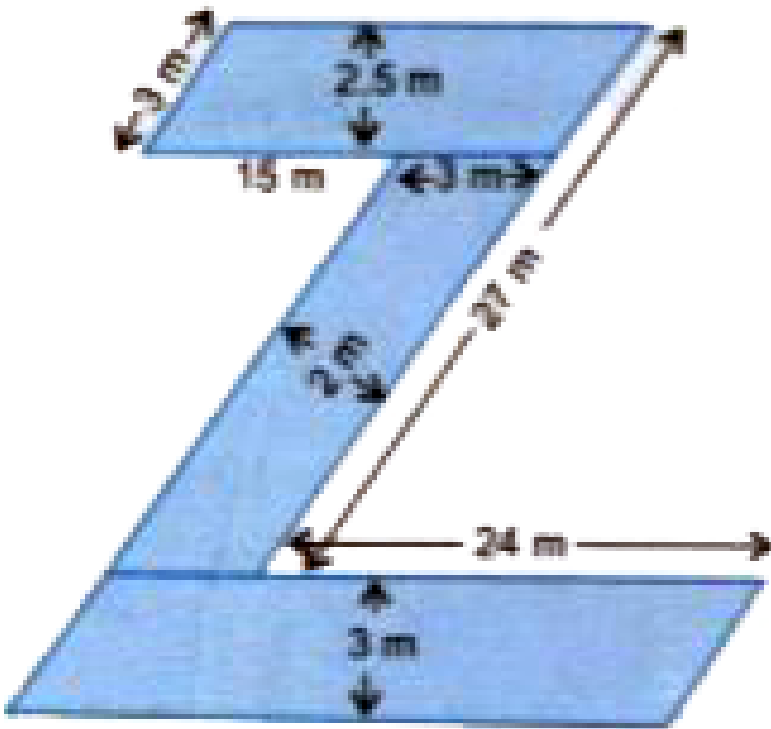
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13. Find the area of the shaded region in the adjoining figure, it being given that ABCD is a square of side 12 cm, CE = 4 cm, FA = 5 cm and BG = 5 cm.



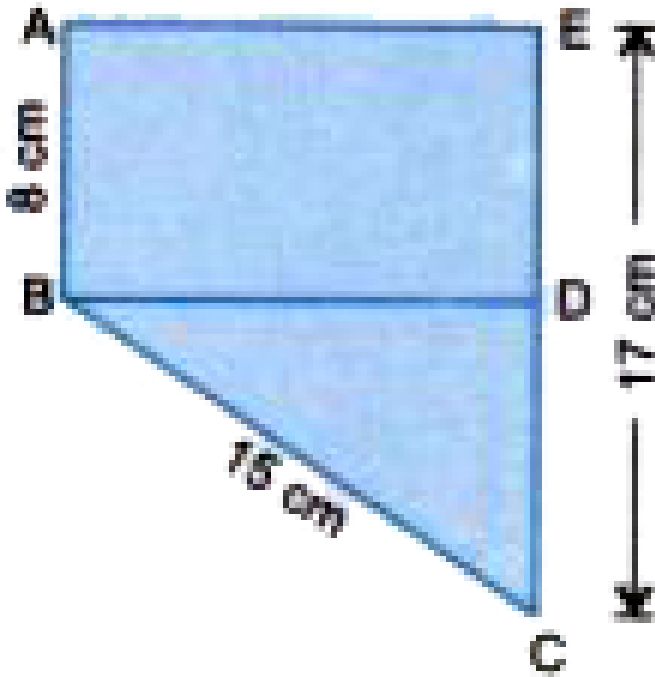
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14. Find the area of the shaded region in the adjoining figure :



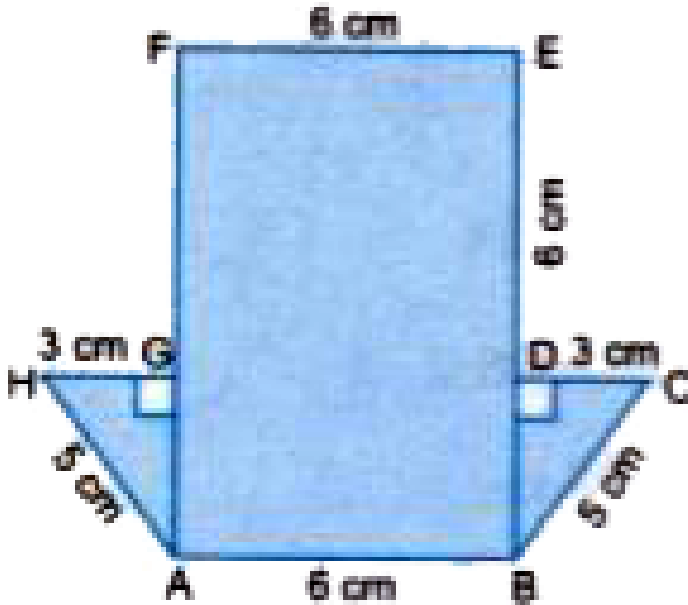
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15. Find the area of the shaded region in the adjoining figure :



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16. Find the area of the shaded region in the adjoining figure :



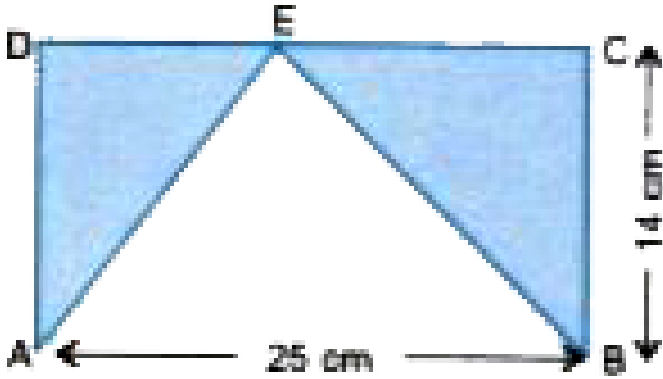
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17. Find the area of the shaded region in the adjoining figure :



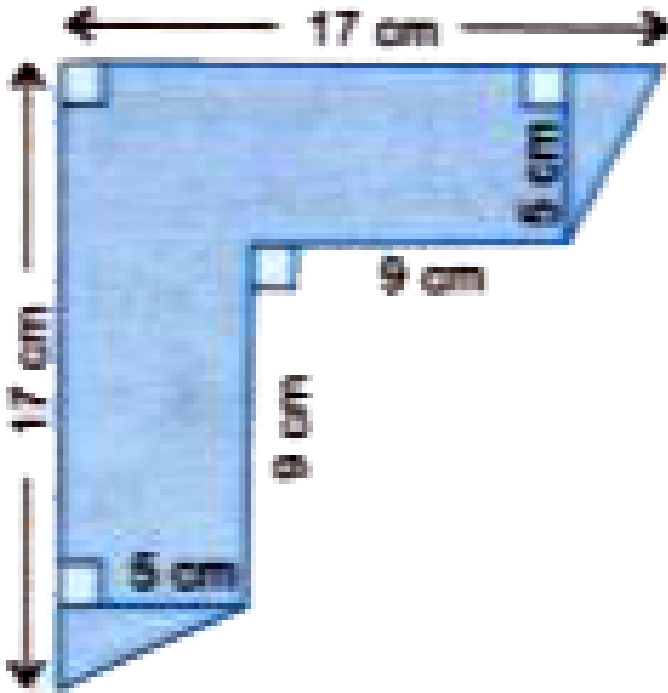
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18. Find the area of the shaded region in the adjoining figure :



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19. Find the area of the shaded region in the adjoining figure :



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Exercise 23 G

1. Find the area of a circle whose radius is :

(i) 2.8 m

(ii) 8.4 m



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2. Find the area of a circle whose diameter is :

(i) 18.2 cm

(ii) 30.8 cm



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3. Taking $\pi = 3.14$, find the area of a whose radius is :

(i) 10 cm

(ii) 15 cm



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4. Find the radius and circumference of a circle whose area is :

55.44m²

(ii) 186.34cm²



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5. Taking $\pi = 3.14$, find the radius and circumference of a circle whose area is :

(i) 200.96cm^2

(ii) 379.94m^2



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6. In a rectangular plot of land 70 m long and 40 m board , a circular garden of radius 17.5 m is developed . Find the cost of turfing the remaining portion at the rate of Rs. 28.50 per sq . Metre .



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7. A wire when bent in the form of square , encloses an area of 146.41cm^2 . If this wire is straightened and then bent to form a circle , what will be the area of the circle so formed ?



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8. From a rectangular cardboard sheet 145 cm long and 32 cm broad ,42 circular plates each of diameter 8 cm have been cut out . Find the area of the remaining portion of the sheet.



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9. A circle is inscribed in a square of area 784cm^2 Find the area of the circle.



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10. Find the area of the space enclosed by two concentric circles of radii 25 cm and 17 cm.



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11. A path of width 3.5 m runs all around a circular pool having an area of $962.5m^2$. Find the area of the path .



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12. A circular field of radius 41 m has a circular path of uniform width 5 m along and inside its boundary . Find the cost of paving the path at Rs. 25 per sq . Metre .



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13. The area of a ring is $528cm^2$ and the radius of the outer circle is 17 cm . Find :

- (i) the radius of the smaller circle .
- (ii) the width of the ring.



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14. The area of circular garden is $5544m^2$.Outside this garden , a path of uniform width is laid all around . The area of the path is $2002m^2$.Find :

(i) the radius of the circular garden .

(ii) the width of the path.



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