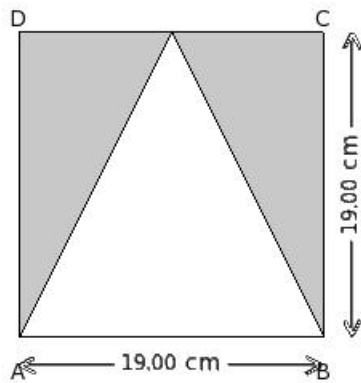


EduSahara™ Learning Center Assignment

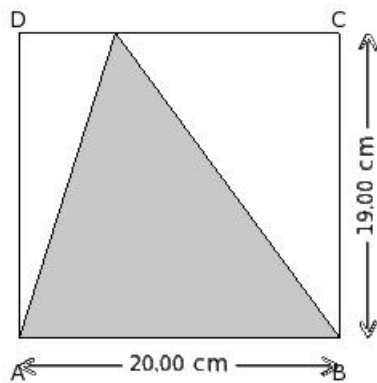
Grade : Class VII, CBSE
Chapter : Perimeter and Area
Name : Perimeter and Area of Complex Shapes
Licensed To : Teachers and Students for non-commercial use

1. In the given figure, the triangle inside the square is an isosceles triangle. Find the area of the shaded region



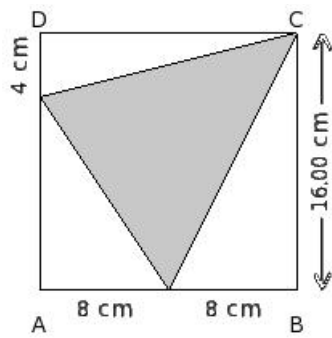
- (i) 197.50 sq.cm (ii) 163.50 sq.cm (iii) 202.50 sq.cm
(iv) 178.50 sq.cm (v) 180.50 sq.cm
-

2. In the given figure, find the area of the shaded region



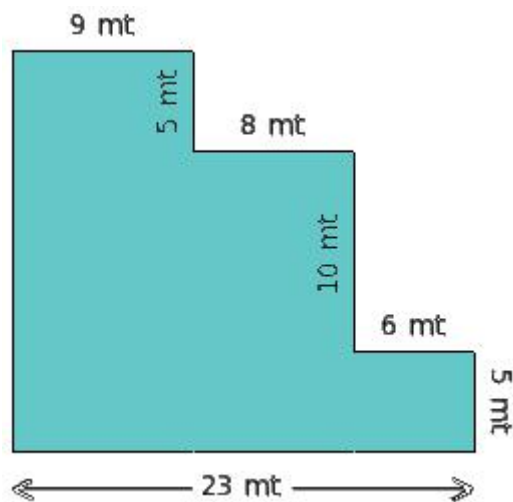
- (i) 198.00 sq.cm (ii) 186.00 sq.cm (iii) 190.00 sq.cm
(iv) 163.00 sq.cm (v) 205.00 sq.cm
-

3. In the given figure, find the area of the shaded region



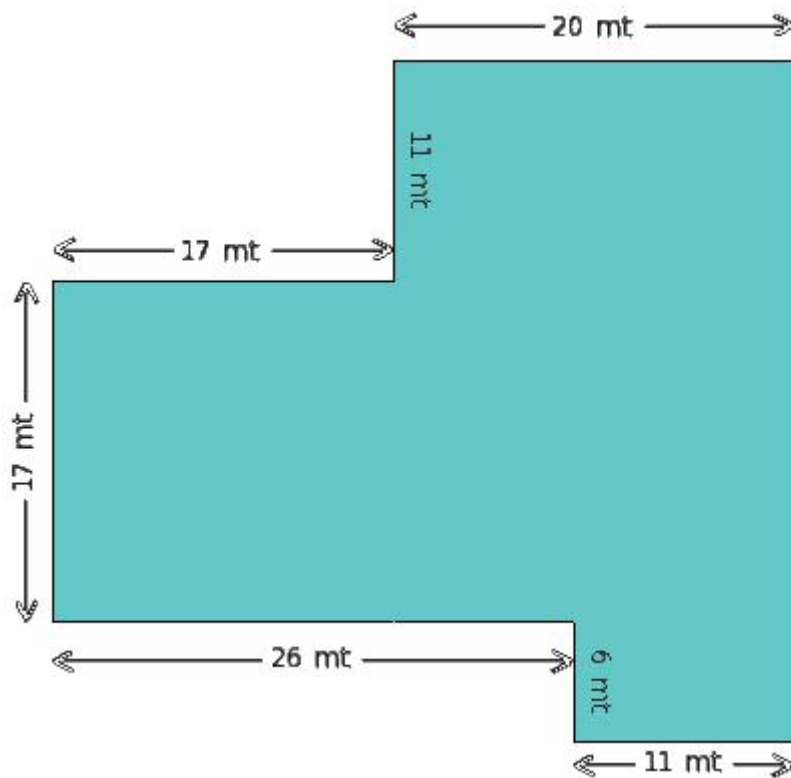
- (i) 128.00 sq.cm (ii) 105.00 sq.cm (iii) 112.00 sq.cm
 (iv) 97.00 sq.cm (v) 120.00 sq.cm

4. Find the area of the shaded region given below



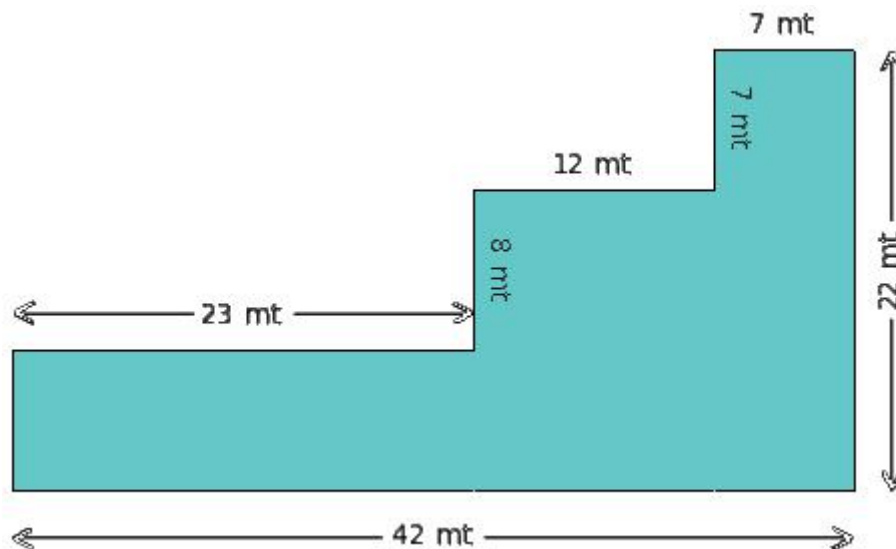
- (i) 343.00 sq.mts (ii) 302.00 sq.mts (iii) 324.00 sq.mts
 (iv) 330.00 sq.mts (v) 357.00 sq.mts

5. Find the area of the shaded region given below



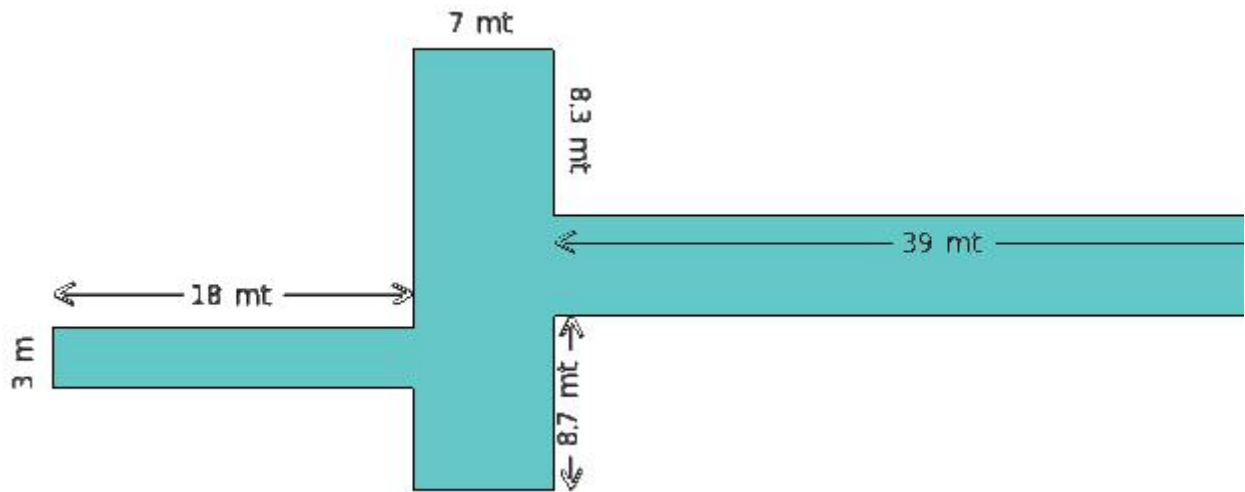
- (i) 889.00 sq.mts (ii) 908.00 sq.mts (iii) 937.00 sq.mts
 (iv) 932.00 sq.mts (v) 915.00 sq.mts

6. Find the area of the shaded region given below



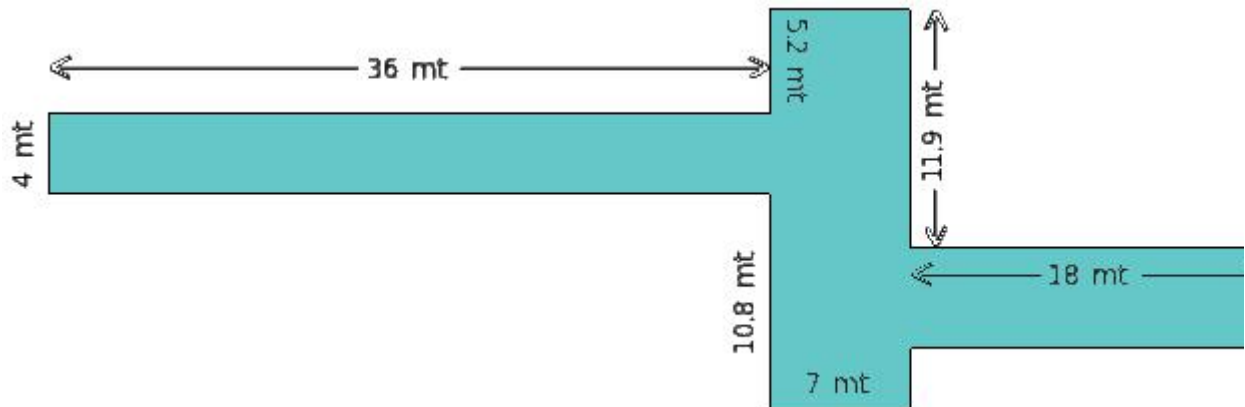
- (i) 509.00 sq.mts (ii) 478.00 sq.mts (iii) 483.00 sq.mts
 (iv) 522.00 sq.mts (v) 495.00 sq.mts

7. Find the area of the shaded region given below



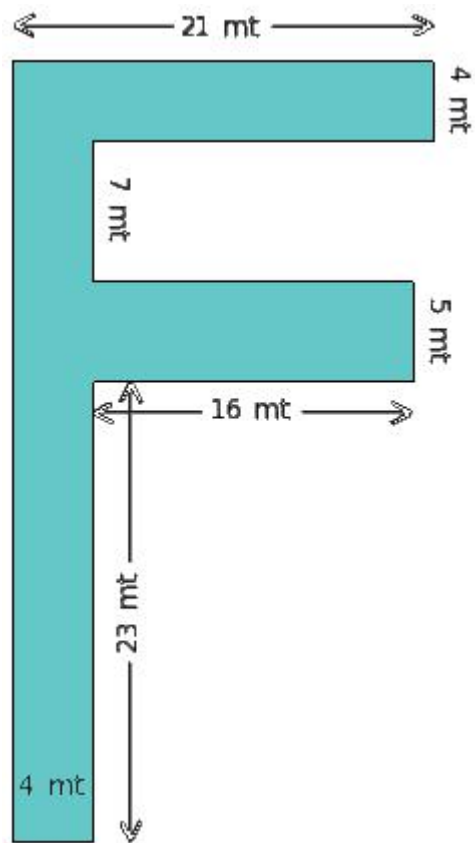
- (i) 430.00 sq.mts (ii) 415.00 sq.mts (iii) 397.00 sq.mts
 (iv) 403.00 sq.mts (v) 377.00 sq.mts

8. Find the area of the shaded region given below



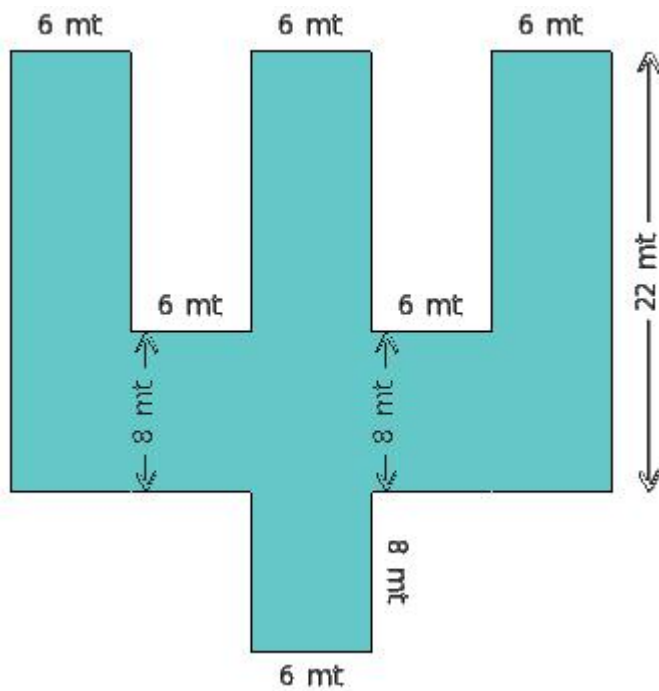
- (i) 358.00 sq.mts (ii) 377.00 sq.mts (iii) 374.00 sq.mts
 (iv) 359.00 sq.mts (v) 400.00 sq.mts

9. Find the area of the shaded region given below



- (i) 289.00 sq.mts (ii) 317.00 sq.mts (iii) 304.00 sq.mts
 (iv) 280.00 sq.mts (v) 311.00 sq.mts

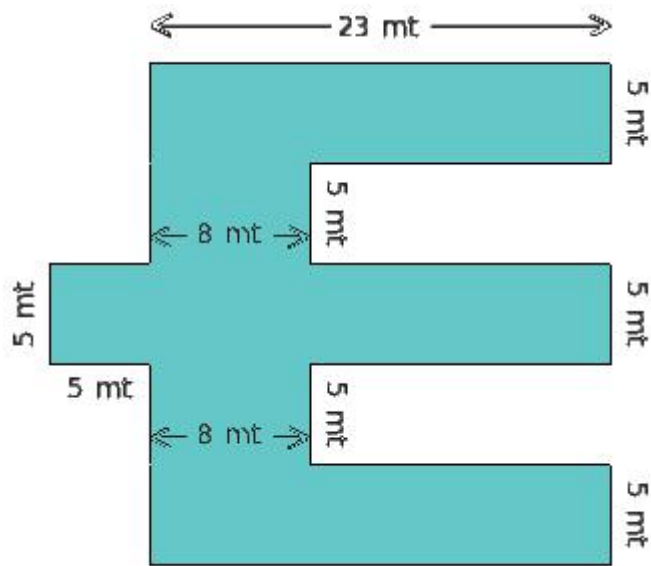
10. Find the area of the shaded region given below



- (i) 552.00 sq.mts (ii) 563.00 sq.mts (iii) 540.00 sq.mts

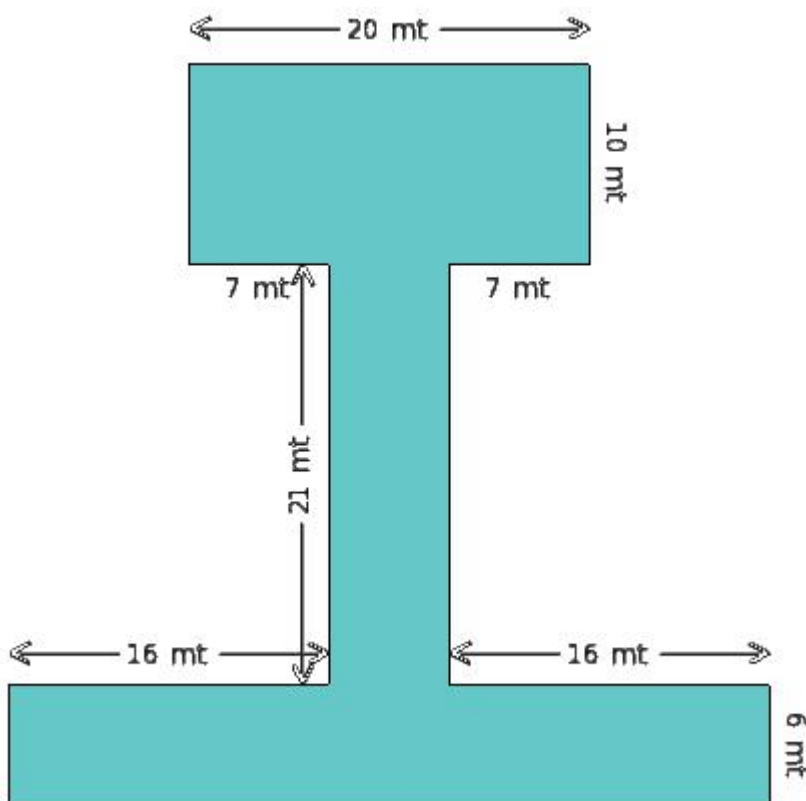
(iv) 515.00 sq.mts (v) 534.00 sq.mts

11. Find the area of the shaded region given below



(i) 442.00 sq.mts (ii) 450.00 sq.mts (iii) 464.00 sq.mts
(iv) 465.00 sq.mts (v) 422.00 sq.mts

12. Find the area of the shaded region given below

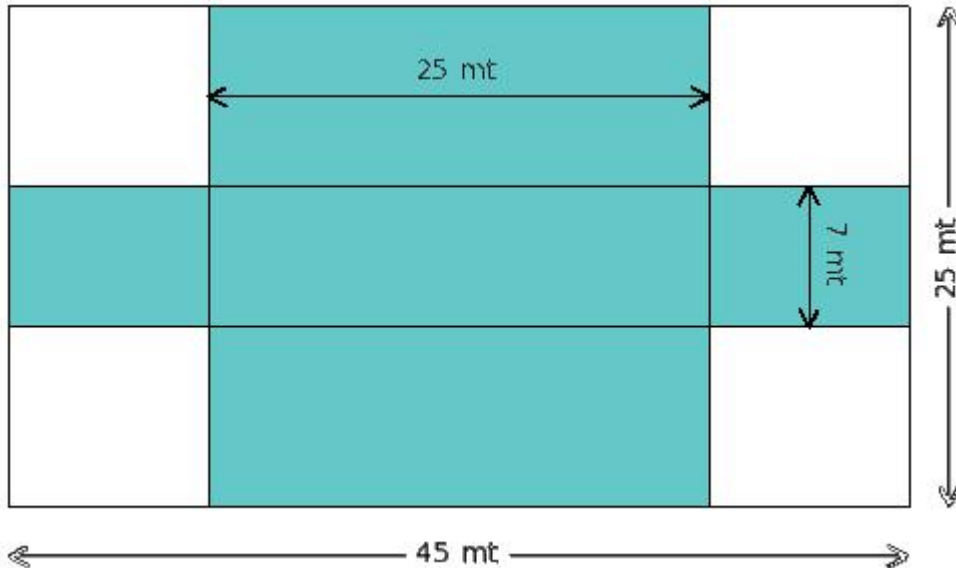


(i) 537.00 sq.mts (ii) 566.00 sq.mts (iii) 554.00 sq.mts
(iv) 550.00 sq.mts (v) 567.00 sq.mts

A rectangular field is 45 mt by 25 mt. It has two paths through its centre, running parallel to its sides.

13. The width of the longer and the shorter paths are 25 mt and 7 mt respectively.

Find the total expense involved in laying tiles on the paths at ₹20.8 per 1 sq.mts and laying grass in the remaining portion at ₹10.8 per 1 sq.mts.

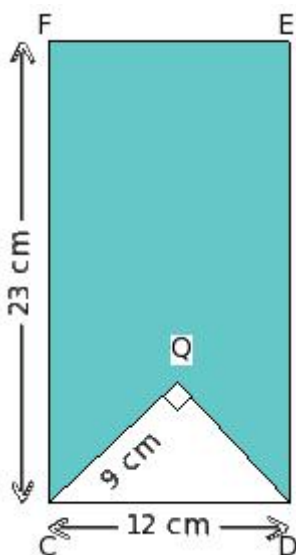


- (i) ₹19800.00 (ii) ₹19802.00 (iii) ₹19798.00 (iv) ₹19801.00 (v) ₹19799.00

In the given figure, CDEF is a rectangle in which $CD = 12$ cm and $FC = 23$ cm.

14. Also, $\triangle QCD$ is a right angled triangle in which $\angle DQC = 90^\circ$ and $QC = 9$ cm

Find the area of the shaded region

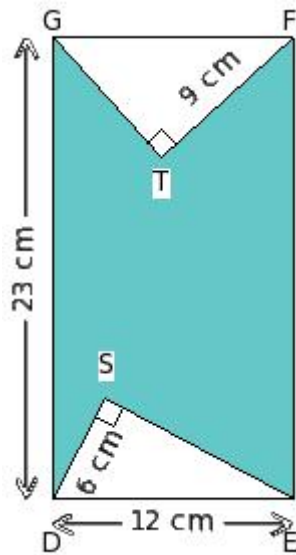


- (i) 238.28 sq.cm (ii) 240.28 sq.cm (iii) 239.28 sq.cm
(iv) 242.28 sq.cm (v) 241.28 sq.cm

In the given figure, DEFG is a rectangle in which $DE = 12$ cm and $GD = 23$ cm.

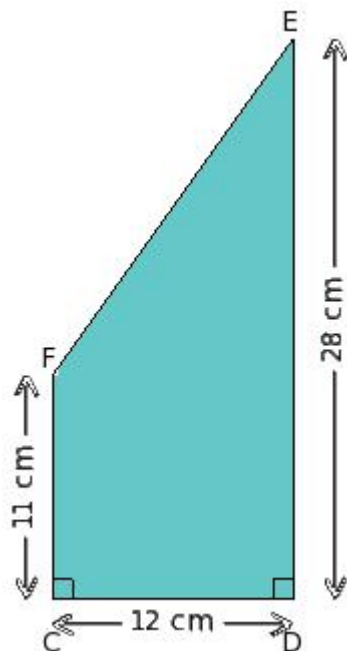
15. Also, $\triangle SDE$ and $\triangle TFG$ are the right angled triangles in which $\angle ESD = \angle GTF = 90^\circ$, $SD = 6$ cm and $TF = 9$ cm.

Find the area of the shaded region



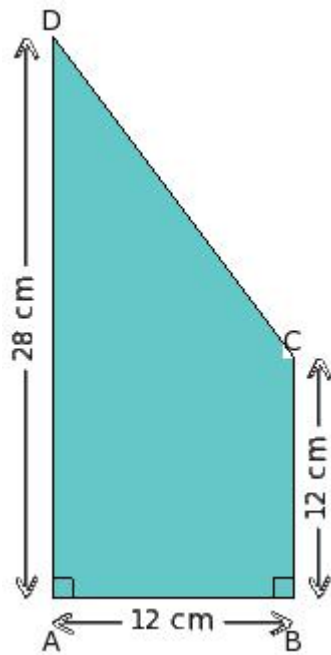
- (i) 208.11 sq.cm (ii) 207.11 sq.cm (iii) 211.11 sq.cm
(iv) 209.11 sq.cm (v) 210.11 sq.cm

16. Find the area of shaded region in the adjoining figure, given that $CD = 12$ cm, $DE = 28$ cm, $CF = 11$ cm and $\angle FCD = \angle CDE = 90^\circ$.



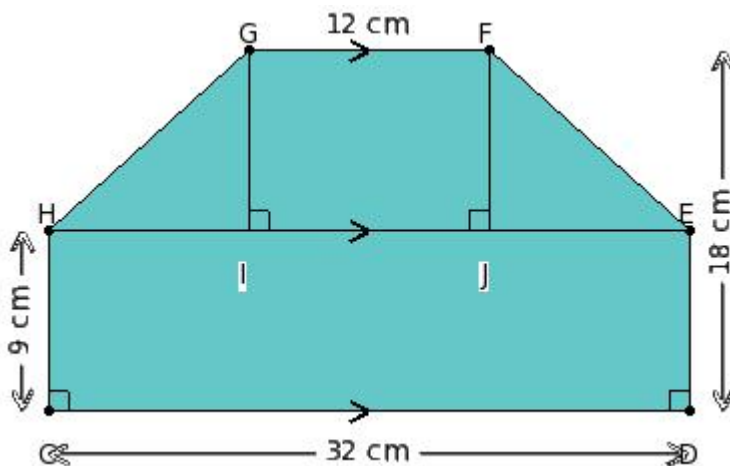
- (i) 235.00 sq.cm (ii) 236.00 sq.cm (iii) 234.00 sq.cm
(iv) 232.00 sq.cm (v) 233.00 sq.cm

17. Find the area of shaded region in the adjoining figure, given that $AB = 12$ cm, $BC = 28$ cm, $AD = 12$ cm and $\angle DAB = \angle ABC = 90^\circ$.



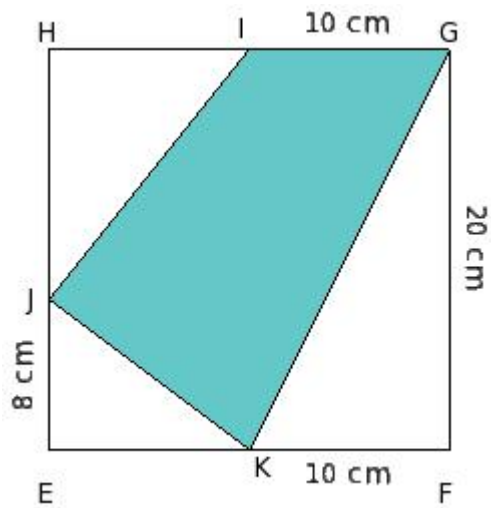
- (i) 240.00 sq.cm (ii) 241.00 sq.cm (iii) 242.00 sq.cm
(iv) 239.00 sq.cm (v) 238.00 sq.cm

18. Find the area of the shaded region of the adjoining figure, given that $\angle HCD = \angle EDC = 90^\circ$, $GF \parallel CD \parallel HE$, $GI \perp HE$, $FJ \perp HE$, $HI = JE$, $CD = 32$ cm, $CH = 9$ cm, $GF = 12$ cm and distance between CD and GF is 18 cm



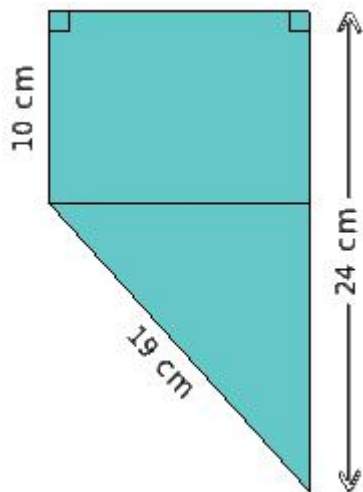
- (i) 488.00 sq.cm (ii) 486.00 sq.cm (iii) 485.00 sq.cm
(iv) 487.00 sq.cm (v) 484.00 sq.cm

19. Find the area of the shaded region in the adjoining figure, given that EFGH is a square of side 20 cm, $GI = 10$ cm, $JE = 8$ cm and $FK = 10$ cm



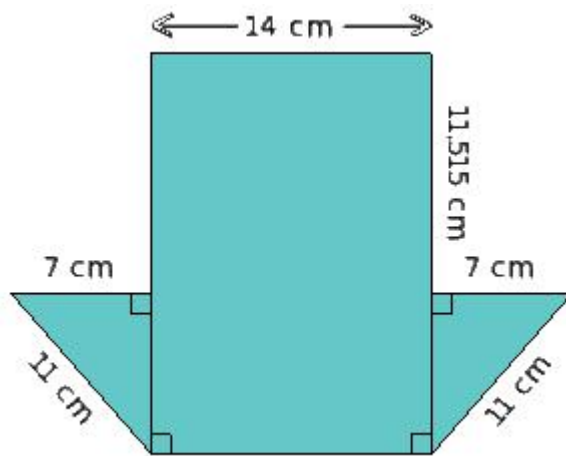
- (i) 200.00 sq.cm (ii) 201.00 sq.cm (iii) 199.00 sq.cm
 (iv) 198.00 sq.cm (v) 202.00 sq.cm

20. Find the area of the shaded region



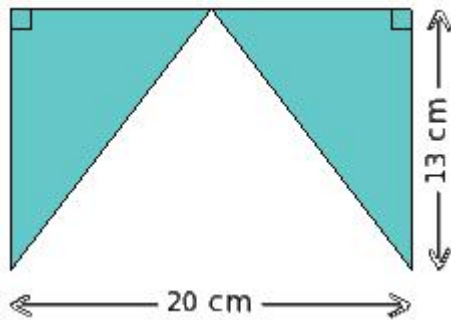
- (i) 216.37 sq.cm (ii) 217.37 sq.cm (iii) 218.37 sq.cm
 (iv) 220.37 sq.cm (v) 219.37 sq.cm

21. Find the area of the shaded region



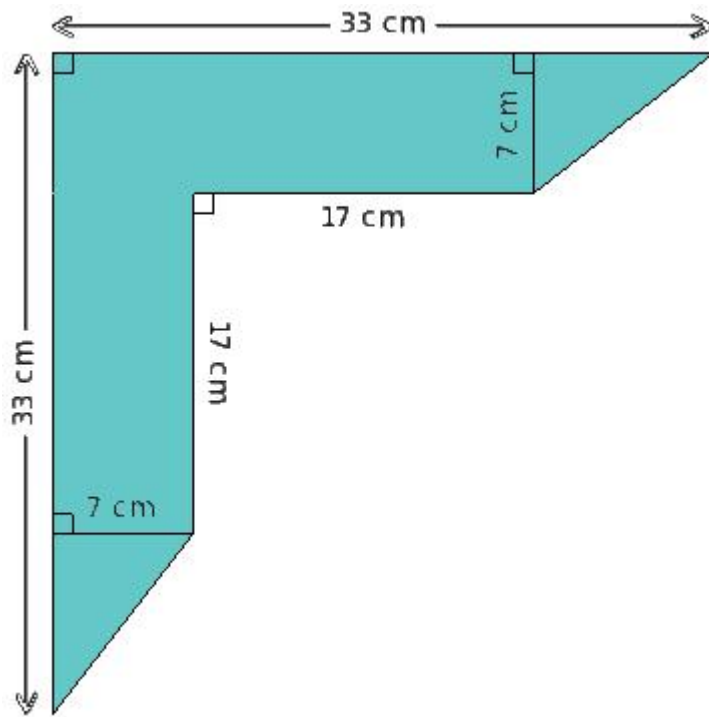
- (i) 341.40 sq.cm (ii) 340.40 sq.cm (iii) 339.40 sq.cm
 (iv) 337.40 sq.cm (v) 338.40 sq.cm

22. Find the area of the shaded region



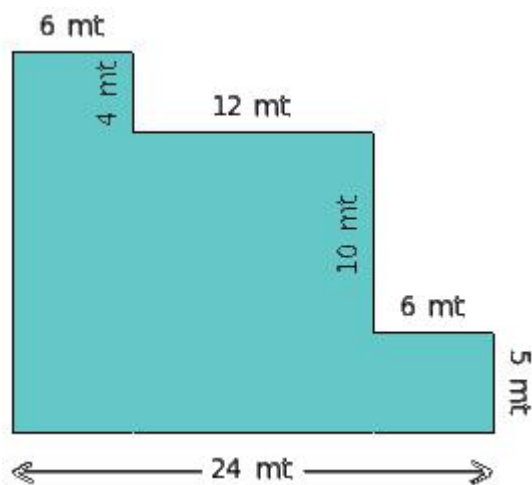
- (i) 131.00 sq.cm (ii) 130.00 sq.cm (iii) 129.00 sq.cm
 (iv) 128.00 sq.cm (v) 132.00 sq.cm

23. Find the area of the shaded region



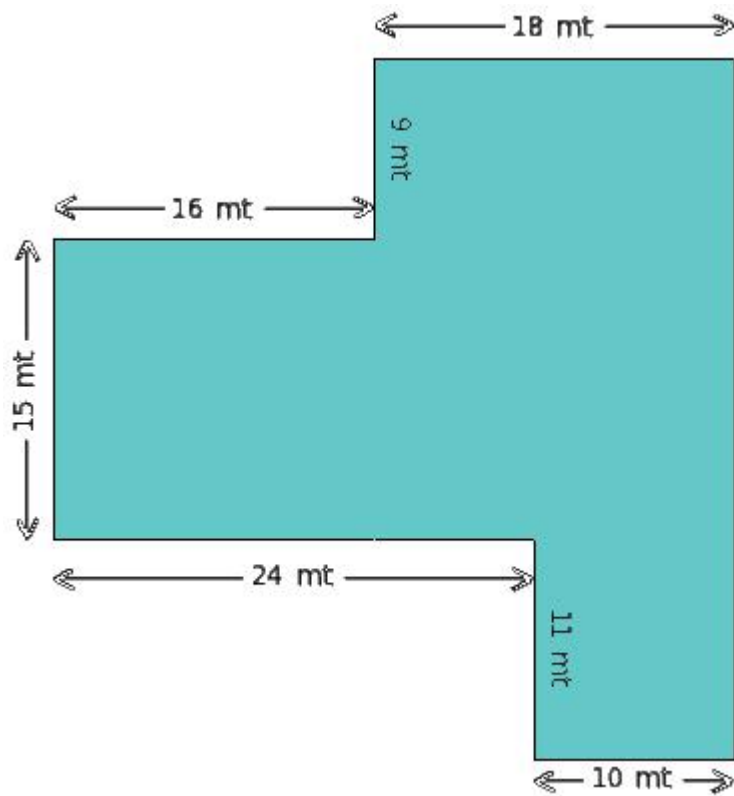
- (i) 350.00 sq.cm (ii) 349.00 sq.cm (iii) 352.00 sq.cm
 (iv) 351.00 sq.cm (v) 348.00 sq.cm

24. Find the perimeter of the shaded region given below



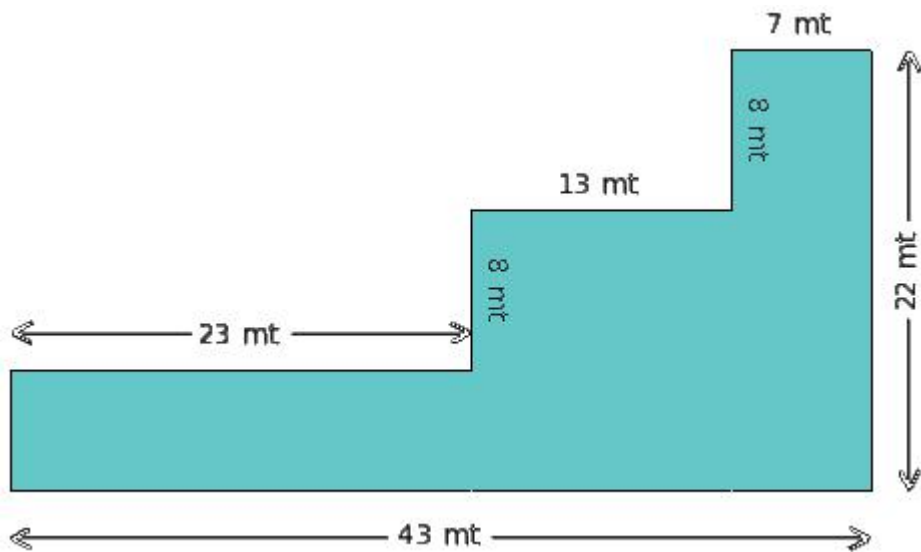
- (i) 86.00 mt (ii) 91.00 mt (iii) 81.00 mt (iv) 89.00 mt (v) 83.00 mt

25. Find the perimeter of the shaded region given below



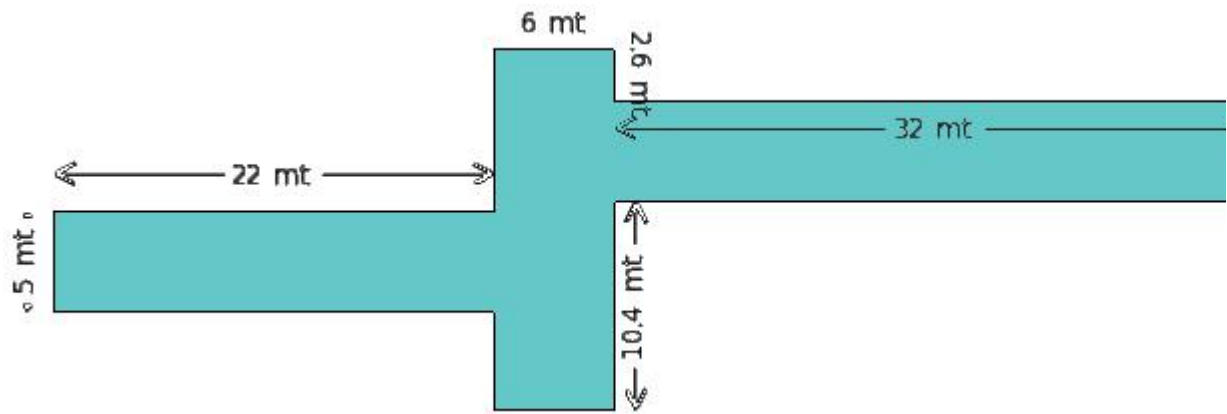
- (i) 151.00 mt (ii) 138.00 mt (iii) 113.00 mt (iv) 124.00 mt

26. Find the perimeter of the shaded region given below



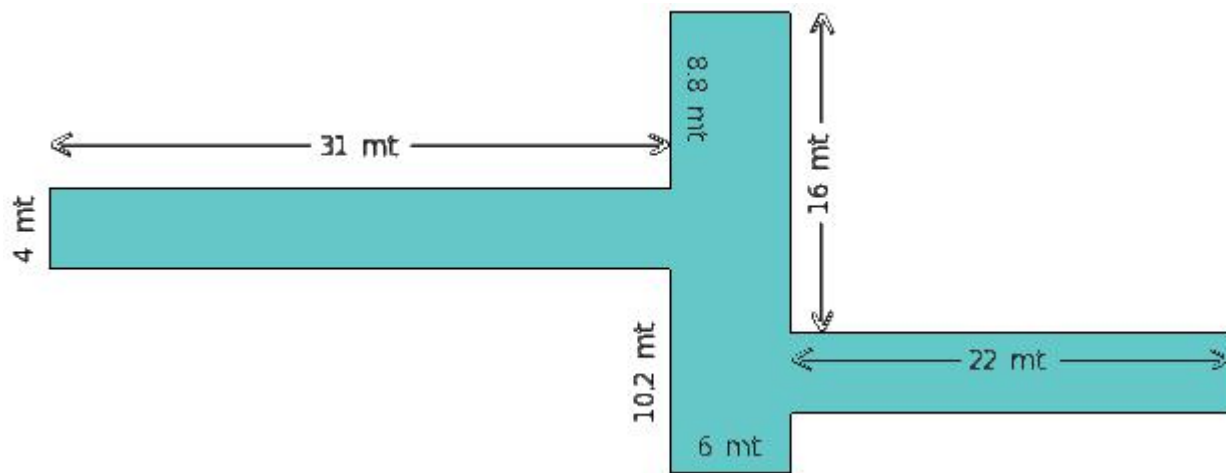
- (i) 113.00 mt (ii) 156.00 mt (iii) 142.00 mt (iv) 106.00 mt (v) 130.00 mt

27. Find the perimeter of the shaded region given below



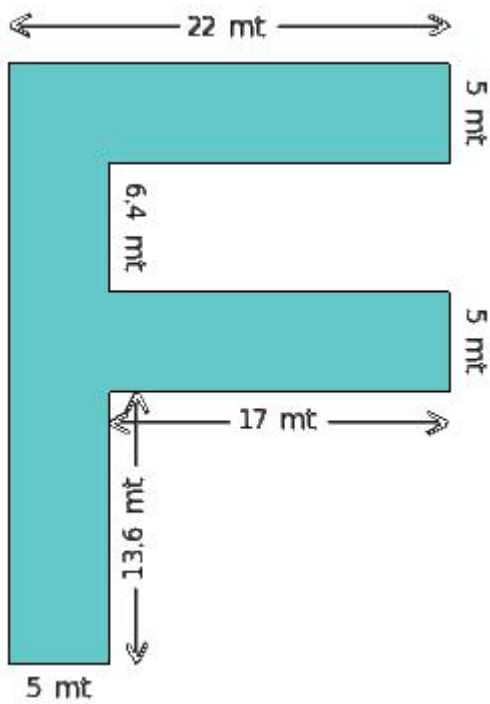
- (i) 159.00 mt (ii) 142.00 mt (iii) 156.00 mt (iv) 174.00 mt (v) 150.00 mt

28. Find the perimeter of the shaded region given below



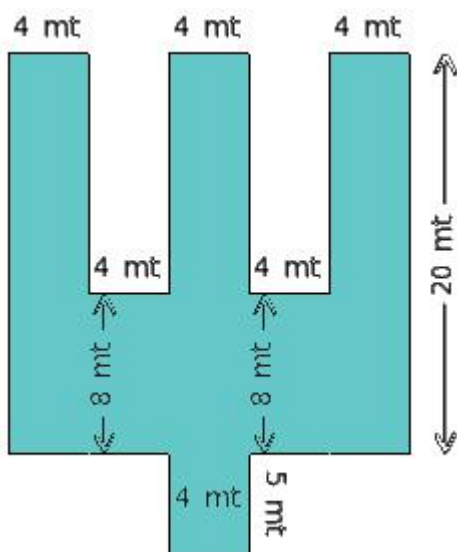
- (i) 149.00 mt (ii) 164.00 mt (iii) 181.00 mt (iv) 150.00 mt (v) 192.00 mt

29. Find the perimeter of the shaded region given below



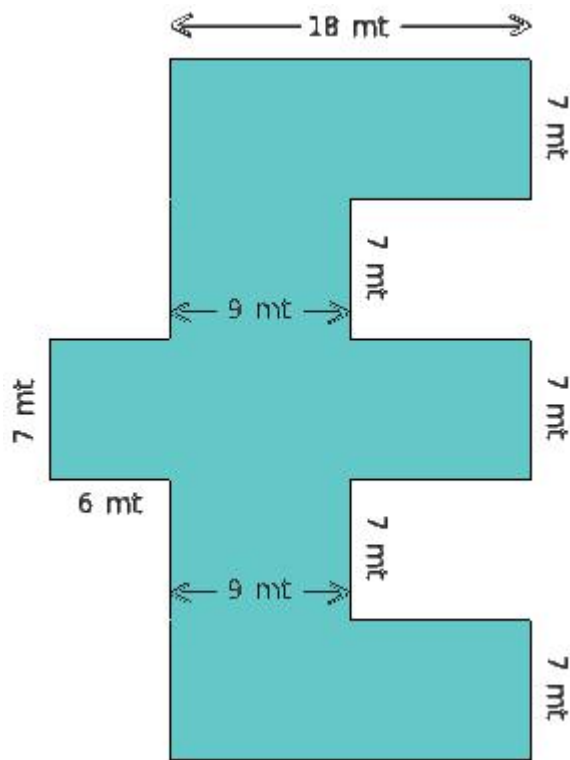
- (i) 160.00 mt (ii) 138.00 mt (iii) 143.00 mt (iv) 122.00 mt (v) 125.00 mt

30. Find the perimeter of the shaded region given below



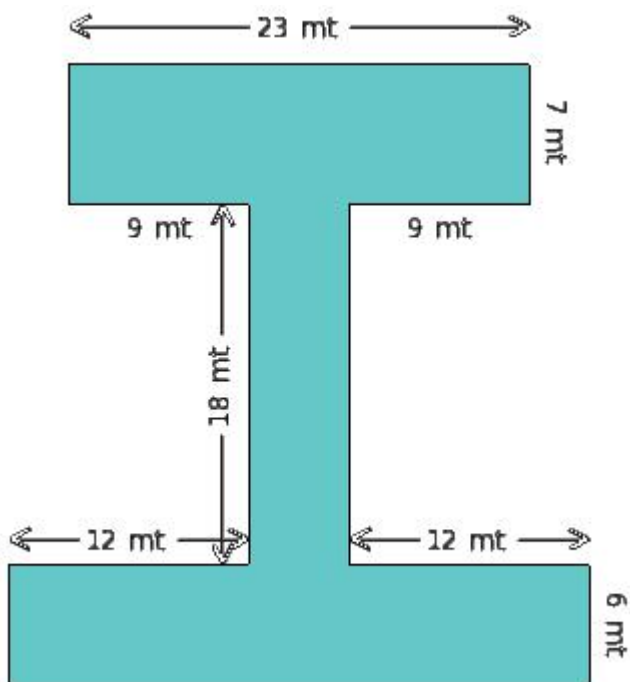
- (i) 138.00 mt (ii) 124.00 mt (iii) 126.00 mt (iv) 146.00 mt (v) 151.00 mt

31. Find the perimeter of the shaded region given below



- (i) 142.00 mt (ii) 127.00 mt (iii) 161.00 mt (iv) 154.00 mt (v) 180.00 mt

32. Find the perimeter of the shaded region given below



- (i) 143.00 mt (ii) 156.00 mt (iii) 134.00 mt (iv) 171.00 mt (v) 170.00 mt

Assignment Key

- 1) (v)
- 2) (iii)
- 3) (iii)
- 4) (iv)
- 5) (v)
- 6) (v)
- 7) (iv)
- 8) (iii)
- 9) (iii)
- 10) (iii)
- 11) (ii)
- 12) (iii)
- 13) (i)
- 14) (ii)
- 15) (iv)
- 16) (iii)
- 17) (i)
- 18) (ii)
- 19) (i)
- 20) (iii)
- 21) (iii)
- 22) (ii)
- 23) (i)
- 24) (i)
- 25) (ii)
- 26) (v)
- 27) (iii)
- 28) (ii)
- 29) (ii)
- 30) (i)
- 31) (iv)
- 32) (ii)