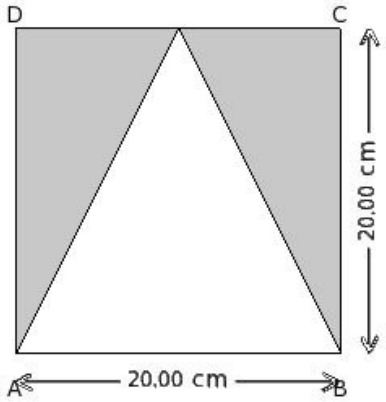
EduSahara™ Assignment

Name : Perimeter and Area of Complex Shapes

Chapter : Perimeter and Area

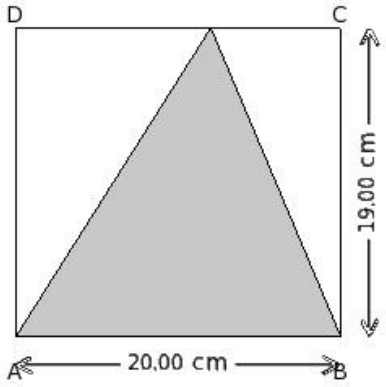
Grade : CBSE Grade VII

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



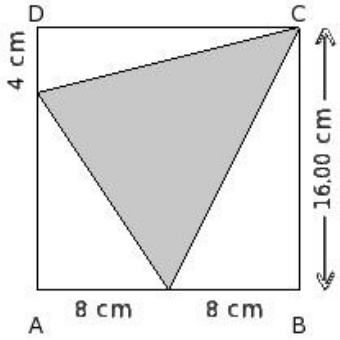
(i) 214.00 sq.cm (ii) 213.00 sq.cm (iii) 185.00 sq.cm (iv) 183.00 sq.cm (v) 200.00 sq.cm

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



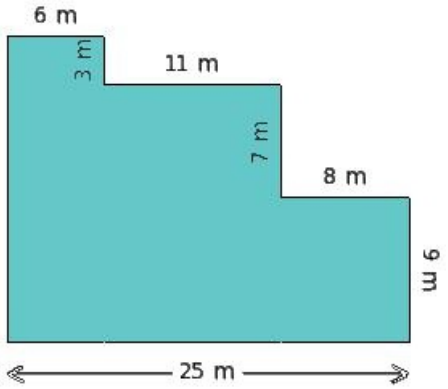
(i) 215.00 sq.cm (ii) 190.00 sq.cm (iii) 174.00 sq.cm (iv) 166.00 sq.cm (v) 192.00 sq.cm

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



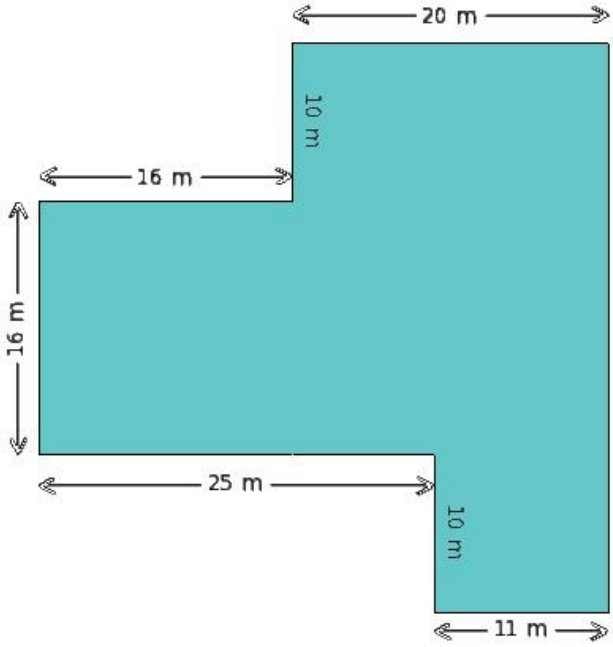
(i) 97.00 sq.cm (ii) 90.00 sq.cm (iii) 115.00 sq.cm (iv) 128.00 sq.cm (v) 112.00 sq.cm

4. Find the area of the shaded region given below



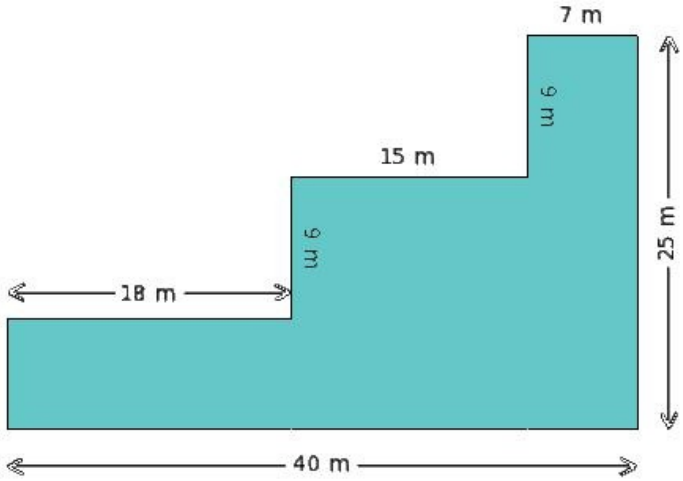
(i) 362.00 sq.m (ii) 344.00 sq.m (iii) 379.00 sq.m (iv) 347.00 sq.m (v) 365.00 sq.m

5. Find the area of the shaded region given below



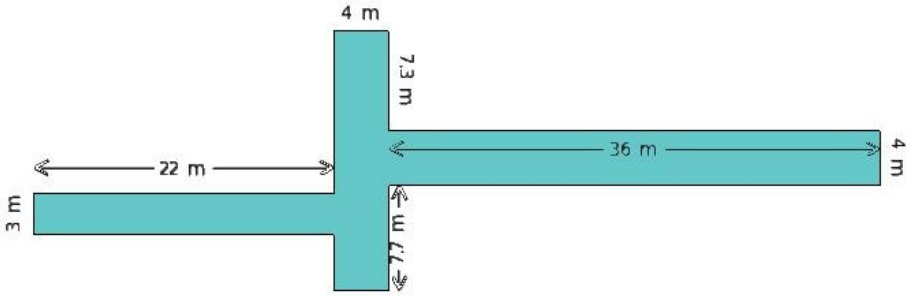
(i) 869.00 sq.m (ii) 898.00 sq.m (iii) 871.00 sq.m (iv) 886.00 sq.m (v) 893.00 sq.m

6. Find the area of the shaded region given below



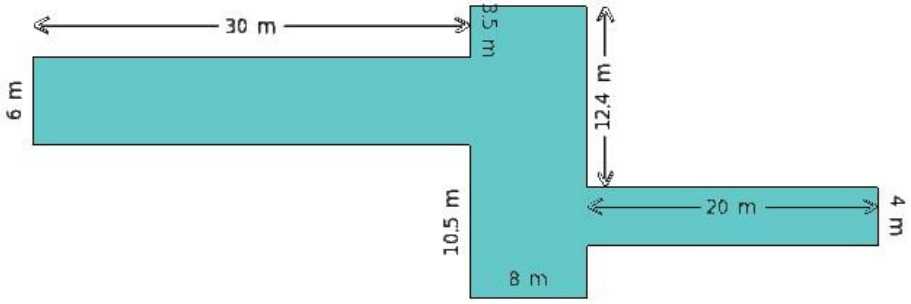
(i) 541.00 sq.m (ii) 554.00 sq.m (iii) 529.00 sq.m (iv) 568.00 sq.m

7. Find the area of the shaded region given below



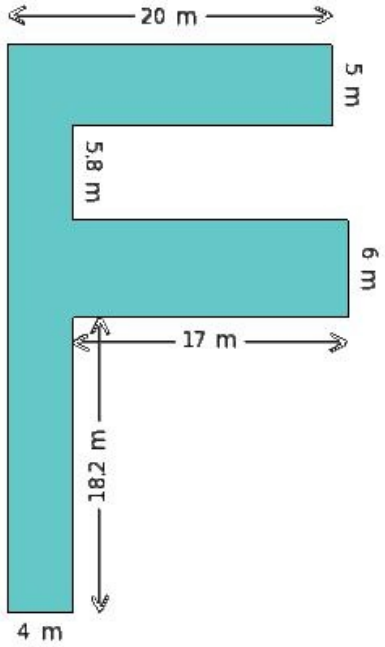
(i) 290.00 sq.m (ii) 269.00 sq.m (iii) 286.00 sq.m (iv) 274.00 sq.m (v) 303.00 sq.m

8. Find the area of the shaded region given below



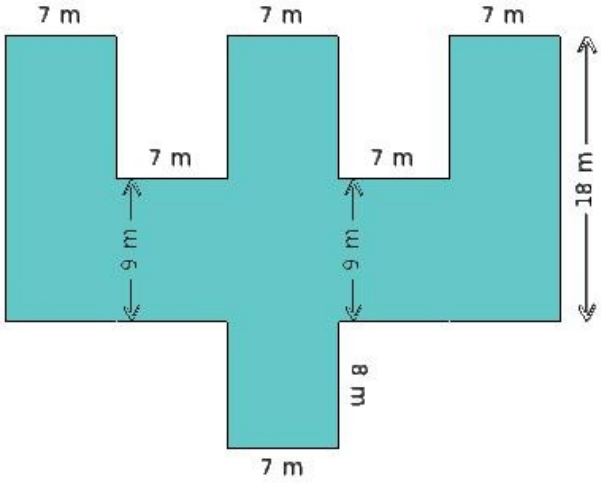
(i) 403.00 sq.m (ii) 424.00 sq.m (iii) 437.00 sq.m (iv) 420.00 sq.m (v) 408.00 sq.m

9. Find the area of the shaded region given below



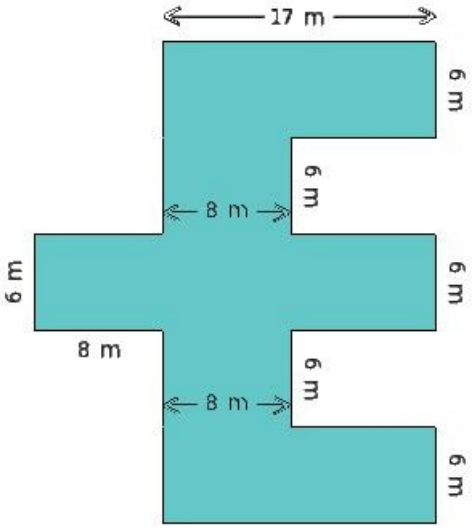
(i) 322.00 sq.m (ii) 317.00 sq.m (iii) 346.00 sq.m (iv) 325.00 sq.m (v) 310.00 sq.m

10. Find the area of the shaded region given below



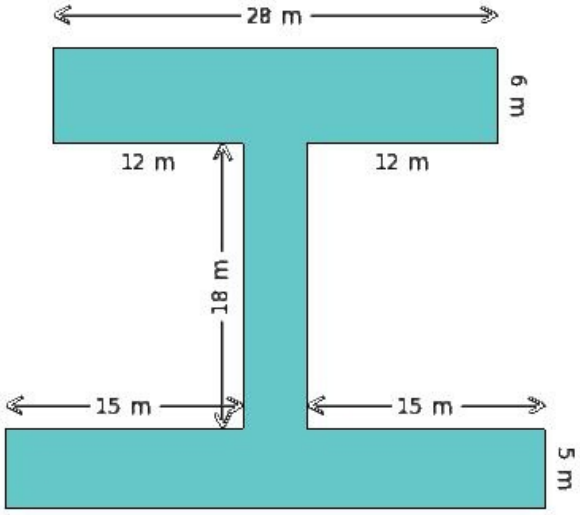
(i) 532.00 sq.m (ii) 560.00 sq.m (iii) 547.00 sq.m (iv) 564.00 sq.m (v) 578.00 sq.m

11. Find the area of the shaded region given below



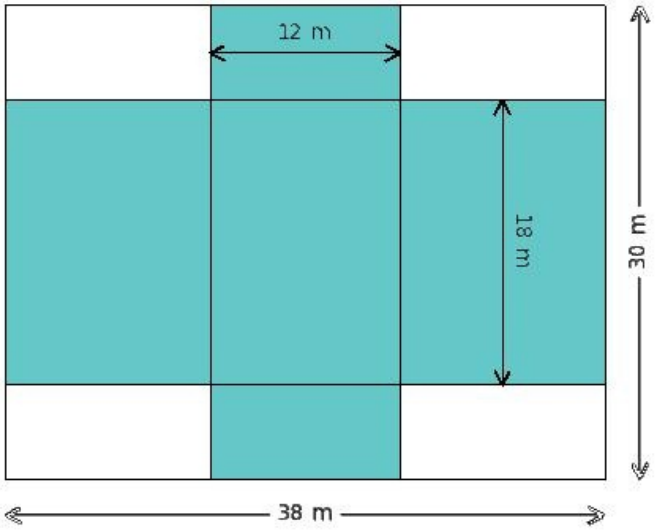
(i) 468.00 sq.m (ii) 438.00 sq.m (iii) 450.00 sq.m (iv) 424.00 sq.m (v) 473.00 sq.m

12. Find the area of the shaded region given below



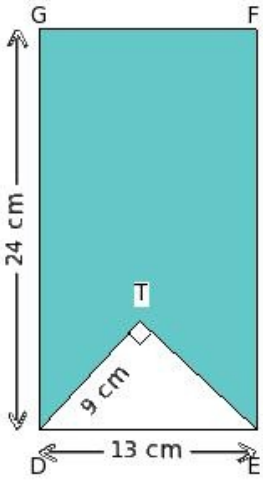
(i) 410.00 sq.m (ii) 407.00 sq.m (iii) 423.00 sq.m (iv) 434.00 sq.m (v) 392.00 sq.m

13. A rectangular field is 38 m by 30 m. It has two paths through its centre, running parallel to its sides. The width of the longer and the shorter paths are 18 m and 12 m respectively. Find the total expense involved in laying tiles on the paths at ₹15.6 per 1 sq.m and laying grass in the remaining portion at ₹14.8 per 1 sq.m.



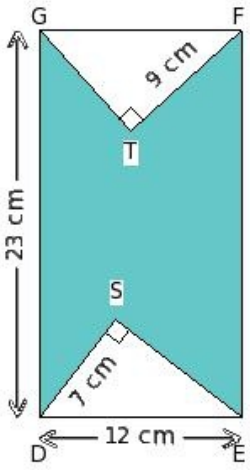
(i) ₹17532.40 (ii) ₹17536.40 (iii) ₹17535.40 (iv) ₹17534.40 (v) ₹17533.40

14. In the given figure, DEFG is a rectangle in which DE = 13 cm and GD = 24 cm. Also, △TDE is a right angled triangle in which ∠ETD = 90° and TD = 9 cm Find the area of the shaded region



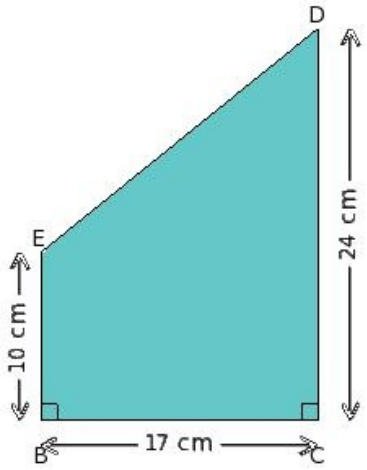
(i) 268.79 sq.cm (ii) 271.79 sq.cm (iii) 267.79 sq.cm (iv) 269.79 sq.cm (v) 270.79 sq.cm

15. In the given figure, DEFG is a rectangle in which DE = 12 cm and GD = 23 cm. Also, △SDE and △TFG are the right angled triangles in which ∠ESD = ∠GTF = 90°, SD = 7 cm and TF = 9 cm. Find the area of the shaded region



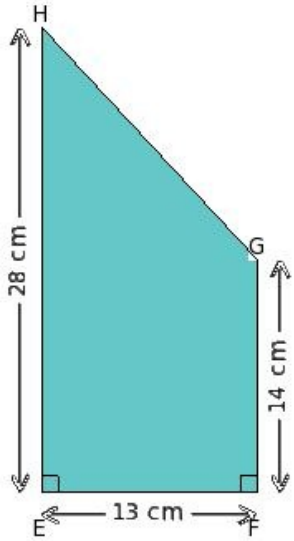
(i) 204.17 sq.cm (ii) 207.17 sq.cm (iii) 206.17 sq.cm (iv) 205.17 sq.cm (v) 208.17 sq.cm

16. Find the area of shaded region in the adjoining figure, given that BC = 17 cm, CD = 24 cm, BE = 10 cm and ∠EBC = ∠BCD = 90°.



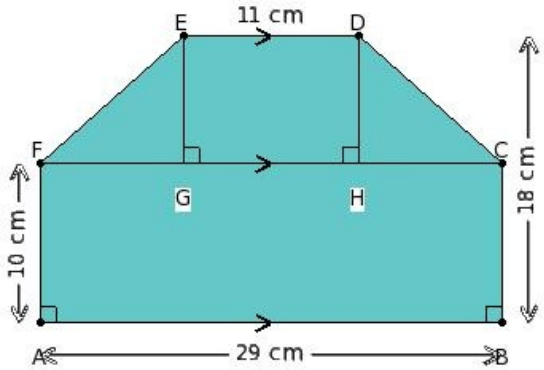
(i) 289.00 sq.cm (ii) 288.00 sq.cm (iii) 291.00 sq.cm (iv) 287.00 sq.cm (v) 290.00 sq.cm

17. Find the area of shaded region in the adjoining figure, given that EF = 13 cm, FG = 28 cm, EH = 14 cm and ∠HEF = ∠EFG = 90°.



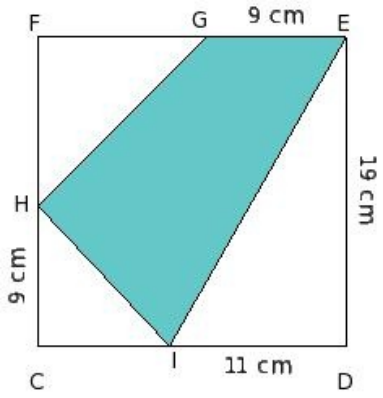
(i) 273.00 sq.cm (ii) 271.00 sq.cm (iii) 274.00 sq.cm (iv) 272.00 sq.cm (v) 275.00 sq.cm

18. Find the area of the shaded region of the adjoining figure, given that ∠FAB = ∠CBA = 90°, ED ∥ AB ∥ FC, EG ⊥ FC, DH ⊥ FC, FG = HC, AB = 29 cm, AF = 10 cm, ED = 11 cm and distance between AB and ED is 18 cm



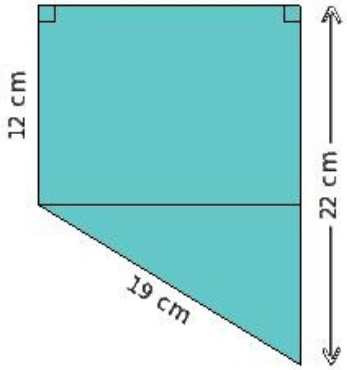
(i) 450.00 sq.cm (ii) 452.00 sq.cm (iii) 451.00 sq.cm (iv) 448.00 sq.cm (v) 449.00 sq.cm

19. Find the area of the shaded region in the adjoining figure, given that CDEF is a square of side 19 cm, EG = 9 cm, HC = 9 cm and DI = 11 cm



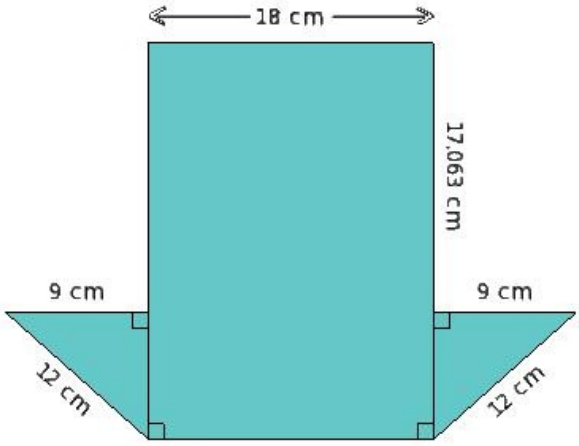
(i) 172.50 sq.cm (ii) 168.50 sq.cm (iii) 171.50 sq.cm (iv) 170.50 sq.cm (v) 169.50 sq.cm

20. Find the area of the shaded region



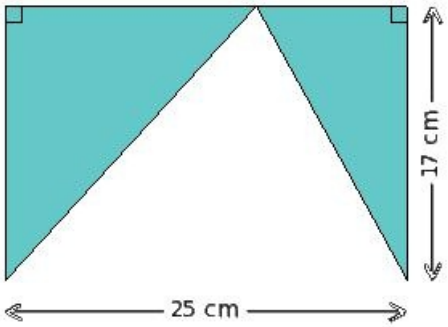
(i) 275.64 sq.cm (ii) 276.64 sq.cm (iii) 274.64 sq.cm (iv) 272.64 sq.cm (v) 273.64 sq.cm

21. Find the area of the shaded region



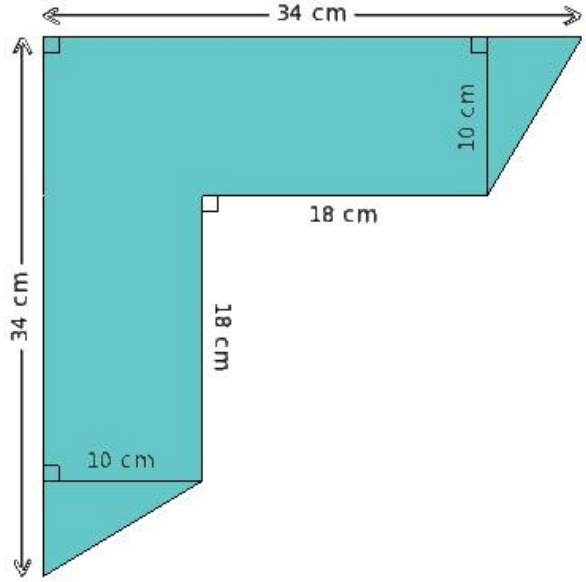
(i) 520.44 sq.cm (ii) 521.44 sq.cm (iii) 519.44 sq.cm (iv) 523.44 sq.cm (v) 522.44 sq.cm

22. Find the area of the shaded region



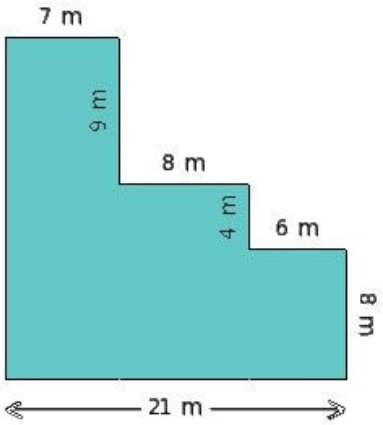
(i) 213.50 sq.cm (ii) 214.50 sq.cm (iii) 211.50 sq.cm (iv) 210.50 sq.cm (v) 212.50 sq.cm

23. Find the area of the shaded region



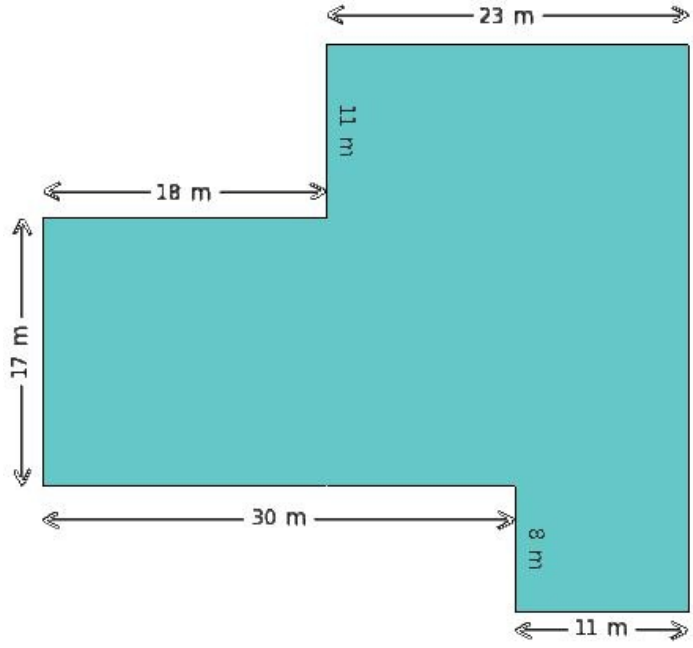
(i) 521.00 sq.cm (ii) 522.00 sq.cm (iii) 520.00 sq.cm (iv) 519.00 sq.cm (v) 518.00 sq.cm

24. Find the perimeter of the shaded region given below



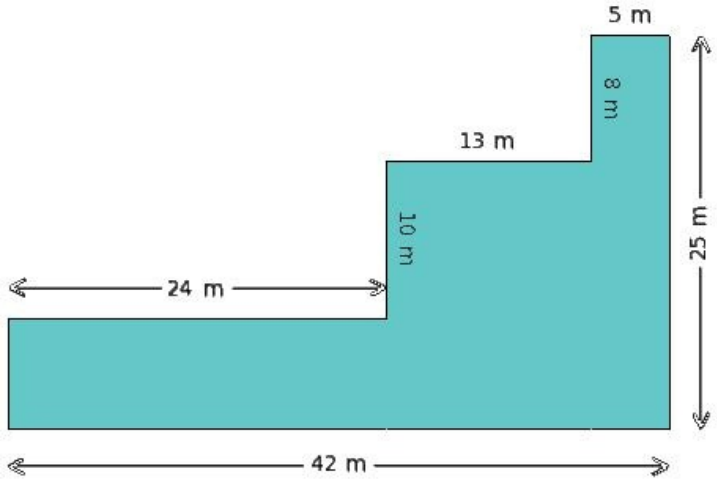
(i) 81.00 m (ii) 84.00 m (iii) 87.00 m (iv) 79.00 m (v) 89.00 m

25. Find the perimeter of the shaded region given below



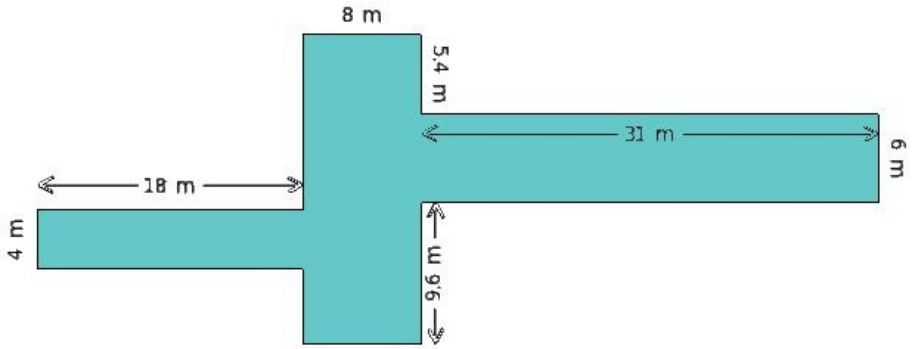
(i) 154.00 m (ii) 169.00 m (iii) 137.00 m (iv) 142.00 m (v) 160.00 m

26. Find the perimeter of the shaded region given below



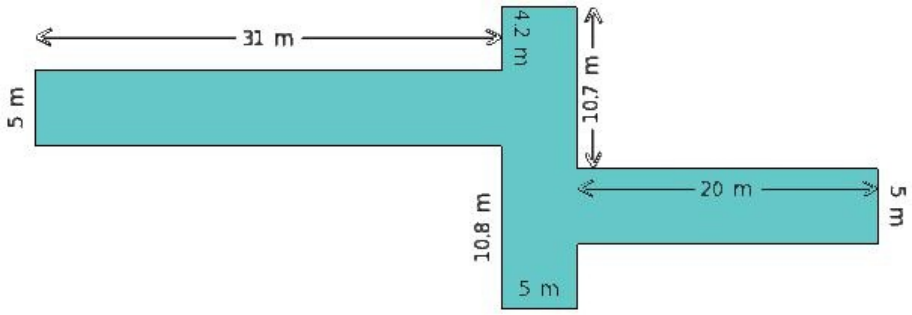
(i) 136.00 m (ii) 121.00 m (iii) 116.00 m (iv) 158.00 m (v) 134.00 m

27. Find the perimeter of the shaded region given below



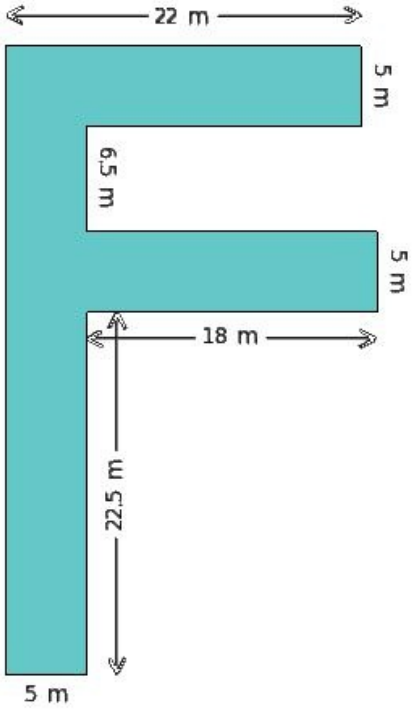
(i) 148.00 m (ii) 133.00 m (iii) 183.00 m (iv) 156.00 m (v) 174.00 m

28. Find the perimeter of the shaded region given below



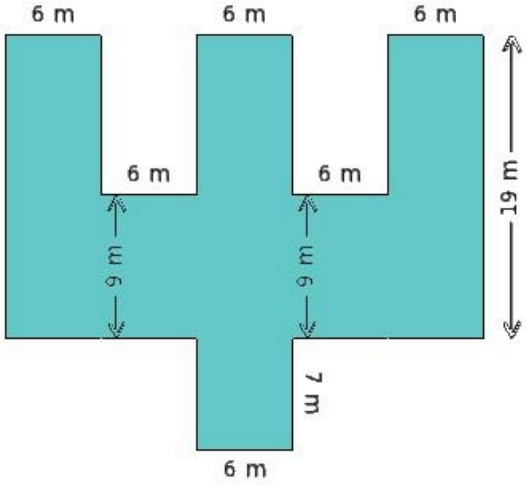
(i) 165.00 m (ii) 137.00 m (iii) 138.00 m (iv) 179.00 m (v) 152.00 m

29. Find the perimeter of the shaded region given below



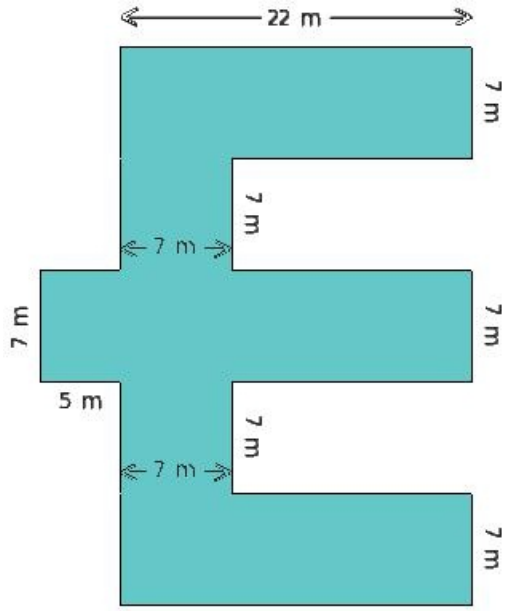
(i) 134.00 m (ii) 140.00 m (iii) 158.00 m (iv) 170.00 m (v) 172.00 m

30. Find the perimeter of the shaded region given below



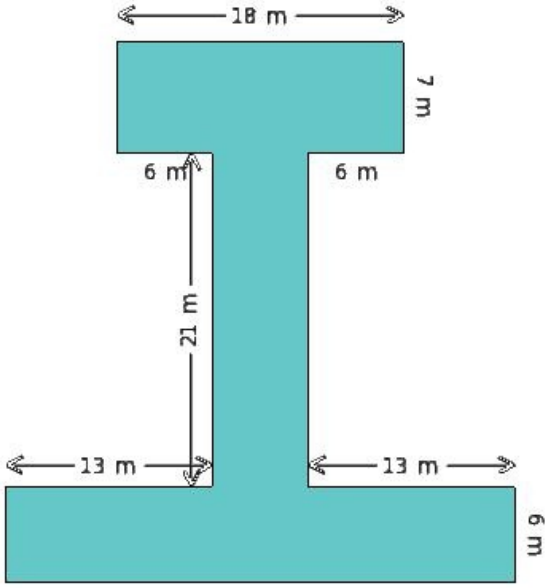
(i) 139.00 m (ii) 144.00 m (iii) 152.00 m (iv) 164.00 m (v) 166.00 m

31. Find the perimeter of the shaded region given below



(i) 198.00 m (ii) 172.00 m (iii) 168.00 m (iv) 189.00 m (v) 184.00 m

32. Find the perimeter of the shaded region given below



(i) 156.00 m (ii) 161.00 m (iii) 133.00 m (iv) 150.00 m (v) 183.00 m

Assignment Key

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