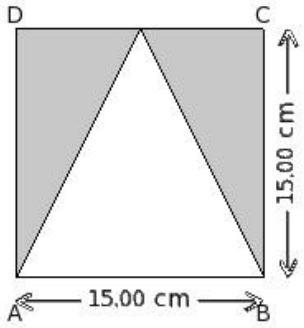
EduSahara™ Assignment

Name : Perimeter and Area of Complex Shapes

Chapter : Perimeter and Area

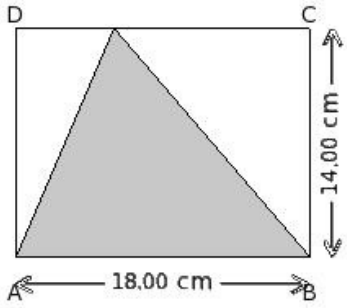
Grade : CBSE Grade VII

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



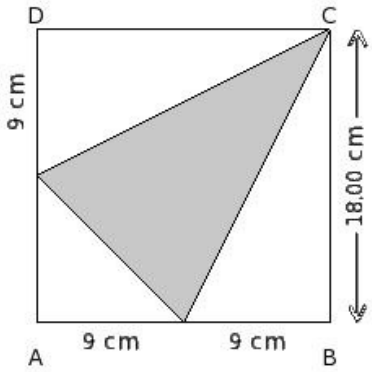
(i) 112.50 sq.cm (ii) 127.50 sq.cm (iii) 100.50 sq.cm (iv) 104.50 sq.cm (v) 128.50 sq.cm

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



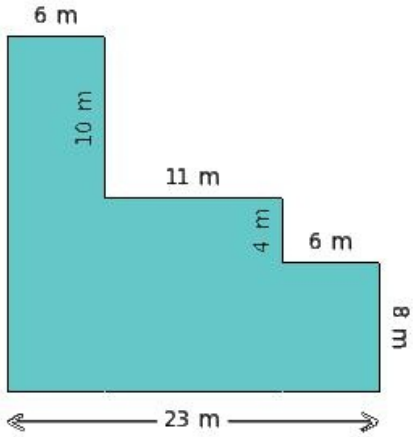
(i) 112.00 sq.cm (ii) 129.00 sq.cm (iii) 111.00 sq.cm (iv) 126.00 sq.cm (v) 143.00 sq.cm

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



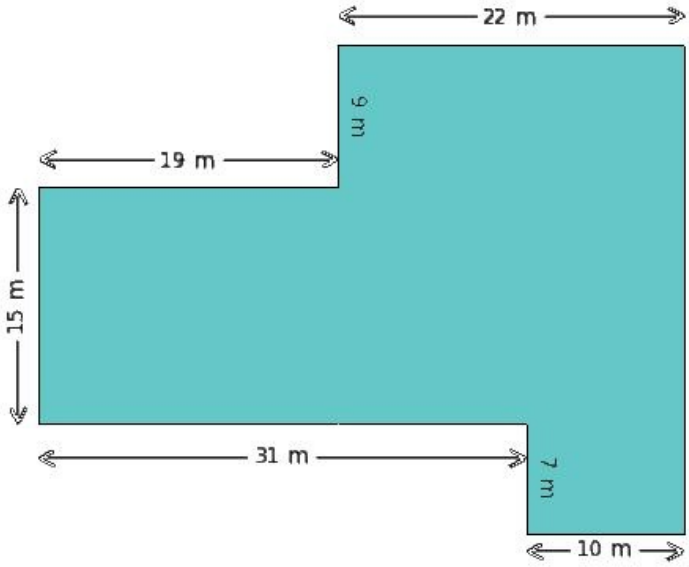
(i) 105.50 sq.cm (ii) 121.50 sq.cm (iii) 103.50 sq.cm (iv) 123.50 sq.cm (v) 138.50 sq.cm

4. Find the area of the shaded region given below



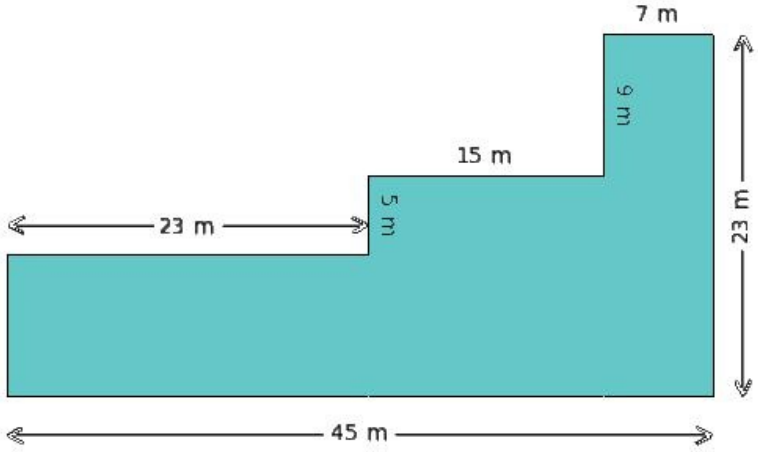
(i) 340.00 sq.m (ii) 325.00 sq.m (iii) 297.00 sq.m (iv) 309.00 sq.m (v) 312.00 sq.m

5. Find the area of the shaded region given below



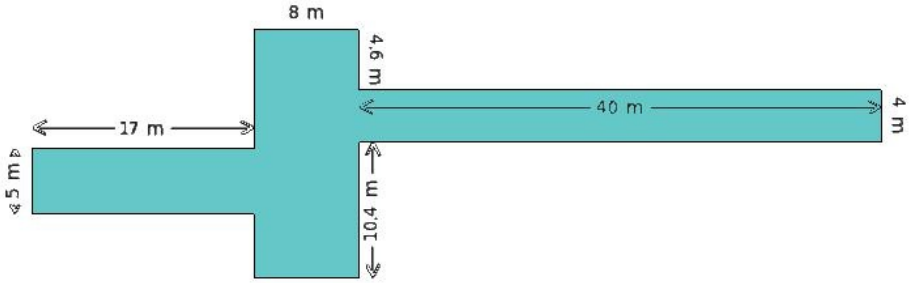
(i) 885.00 sq.m (ii) 858.00 sq.m (iii) 883.00 sq.m (iv) 880.00 sq.m (v) 906.00 sq.m

6. Find the area of the shaded region given below



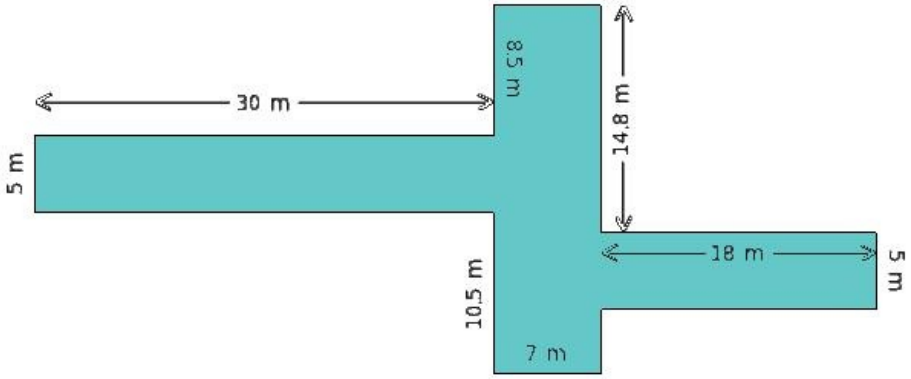
(i) 564.00 sq.m (ii) 584.00 sq.m (iii) 606.00 sq.m (iv) 573.00 sq.m (v) 578.00 sq.m

7. Find the area of the shaded region given below



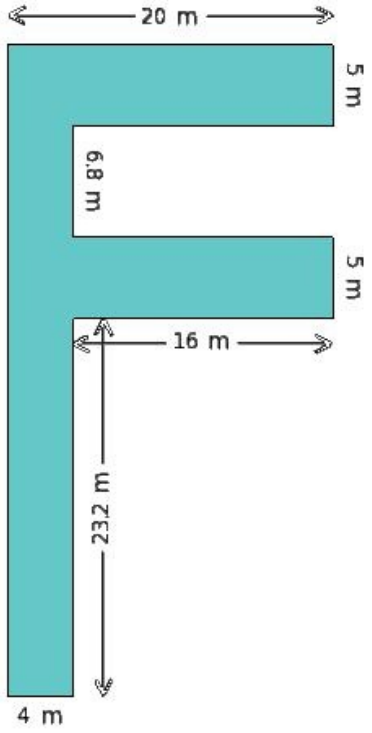
(i) 375.00 sq.m (ii) 397.00 sq.m (iii) 394.00 sq.m (iv) 422.00 sq.m (v) 411.00 sq.m

8. Find the area of the shaded region given below



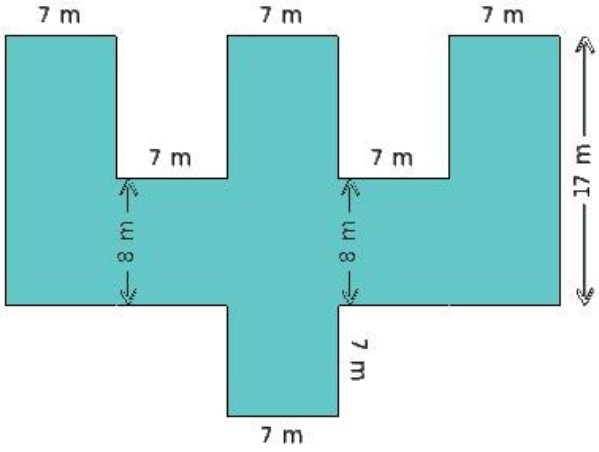
(i) 384.00 sq.m (ii) 421.00 sq.m (iii) 426.00 sq.m (iv) 395.00 sq.m (v) 408.00 sq.m

9. Find the area of the shaded region given below



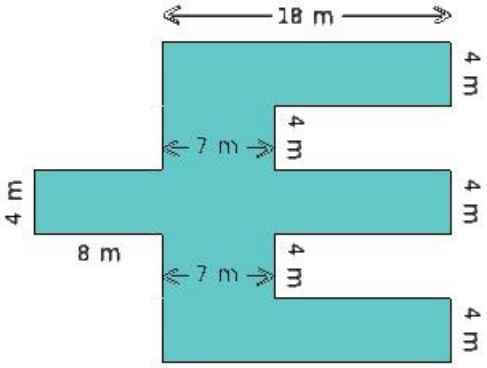
(i) 320.00 sq.m (ii) 323.00 sq.m (iii) 295.00 sq.m (iv) 342.00 sq.m (v) 304.00 sq.m

10. Find the area of the shaded region given below



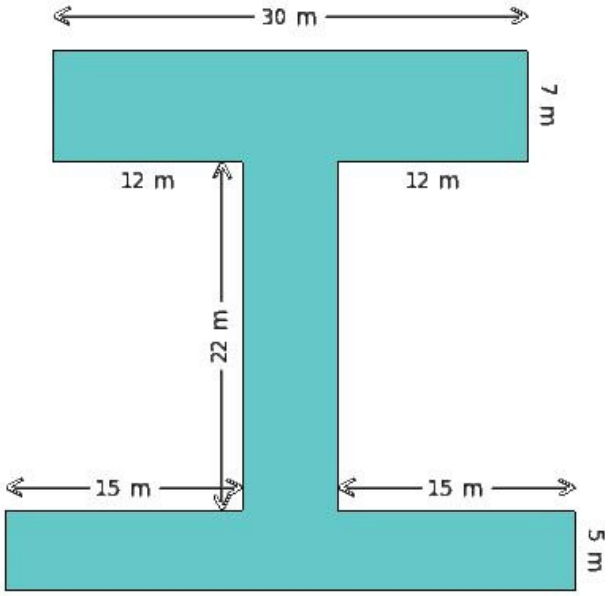
(i) 518.00 sq.m (ii) 510.00 sq.m (iii) 531.00 sq.m (iv) 533.00 sq.m (v) 504.00 sq.m

11. Find the area of the shaded region given below



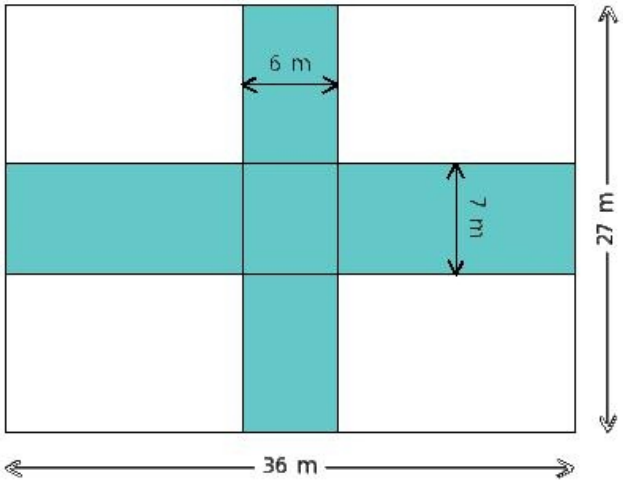
(i) 298.00 sq.m (ii) 306.00 sq.m (iii) 287.00 sq.m (iv) 319.00 sq.m (v) 304.00 sq.m

12. Find the area of the shaded region given below



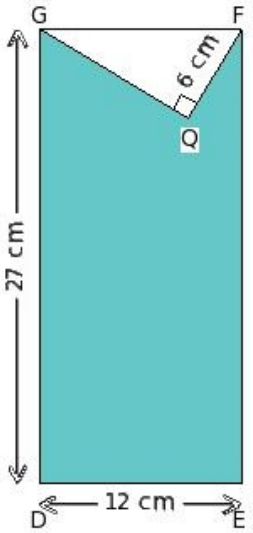
(i) 526.00 sq.m (ii) 544.00 sq.m (iii) 508.00 sq.m (iv) 510.00 sq.m (v) 522.00 sq.m

13. A rectangular field is 36 m by 27 m. It has two paths through its centre, running parallel to its sides. The width of the longer and the shorter paths are 7 m and 6 m respectively. Find the total expense involved in laying tiles on the paths at ₹19.5 per 1 sq.m and laying grass in the remaining portion at ₹20.2 per 1 sq.m.



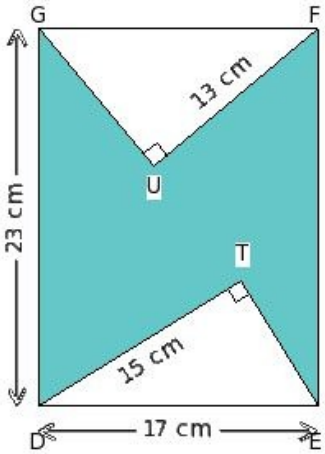
(i) ₹19376.00 (ii) ₹19374.00 (iii) ₹19372.00 (iv) ₹19373.00 (v) ₹19375.00

14. In the given figure, DEFG is a rectangle in which DE = 12 cm and GD = 27 cm. Also, △QFG is a right angled triangle in which ∠GQF = 90° and QF = 6 cm Find the area of the shaded region



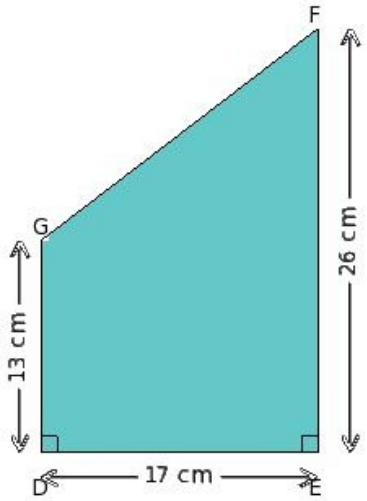
(i) 294.82 sq.cm (ii) 291.82 sq.cm (iii) 293.82 sq.cm (iv) 292.82 sq.cm (v) 290.82 sq.cm

15. In the given figure, DEFG is a rectangle in which DE = 17 cm and GD = 23 cm. Also, △TDE and △UFG are the right angled triangles in which ∠ETD = ∠GUF = 90°, TD = 15 cm and UF = 13 cm. Find the area of the shaded region



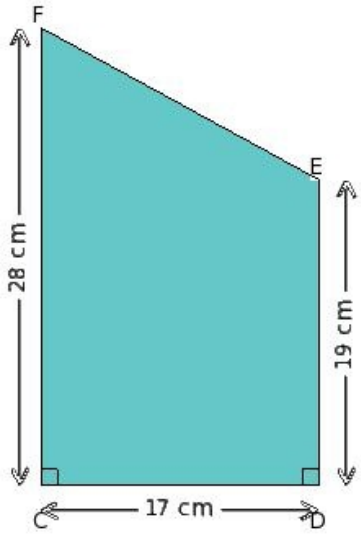
(i) 261.80 sq.cm (ii) 260.80 sq.cm (iii) 258.80 sq.cm (iv) 257.80 sq.cm (v) 259.80 sq.cm

16. Find the area of shaded region in the adjoining figure, given that DE = 17 cm, EF = 26 cm, DG = 13 cm and ∠GDE = ∠DEF = 90°.



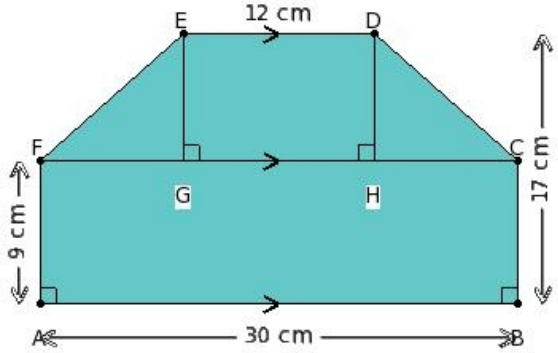
(i) 332.50 sq.cm (ii) 329.50 sq.cm (iii) 333.50 sq.cm (iv) 330.50 sq.cm (v) 331.50 sq.cm

17. Find the area of shaded region in the adjoining figure, given that CD = 17 cm, DE = 28 cm, CF = 19 cm and ∠FCD = ∠CDE = 90°.



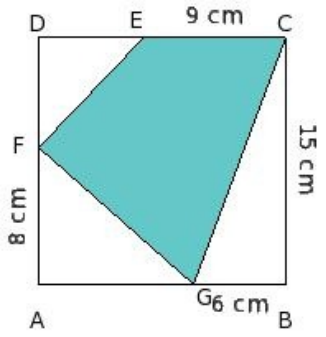
(i) 399.50 sq.cm (ii) 397.50 sq.cm (iii) 401.50 sq.cm (iv) 398.50 sq.cm (v) 400.50 sq.cm

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 = 30 cm, AF = 9 cm, ED = 12 cm and distance between AB and ED is 17 cm



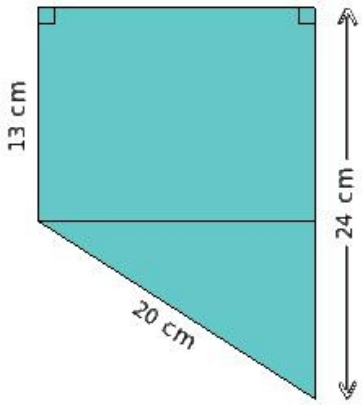
(i) 436.00 sq.cm (ii) 437.00 sq.cm (iii) 439.00 sq.cm (iv) 440.00 sq.cm (v) 438.00 sq.cm

19. Find the area of the shaded region in the adjoining figure, given that ABCD is a square of side 15 cm, CE = 9 cm, FA = 8 cm and BG = 6 cm



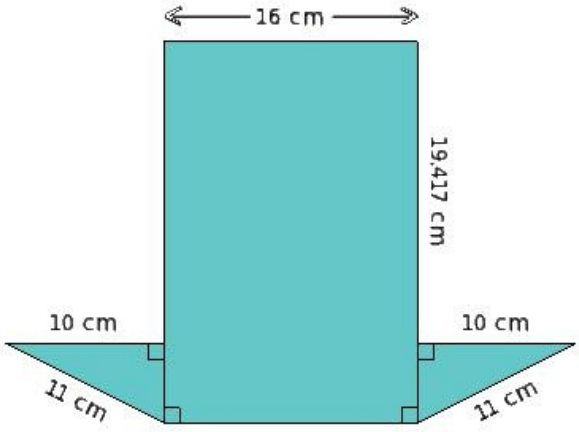
(i) 123.00 sq.cm (ii) 121.00 sq.cm (iii) 124.00 sq.cm (iv) 122.00 sq.cm (v) 125.00 sq.cm

20. Find the area of the shaded region



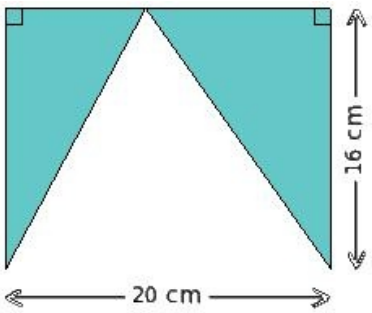
(i) 307.01 sq.cm (ii) 311.01 sq.cm (iii) 309.01 sq.cm (iv) 308.01 sq.cm (v) 310.01 sq.cm

21. Find the area of the shaded region



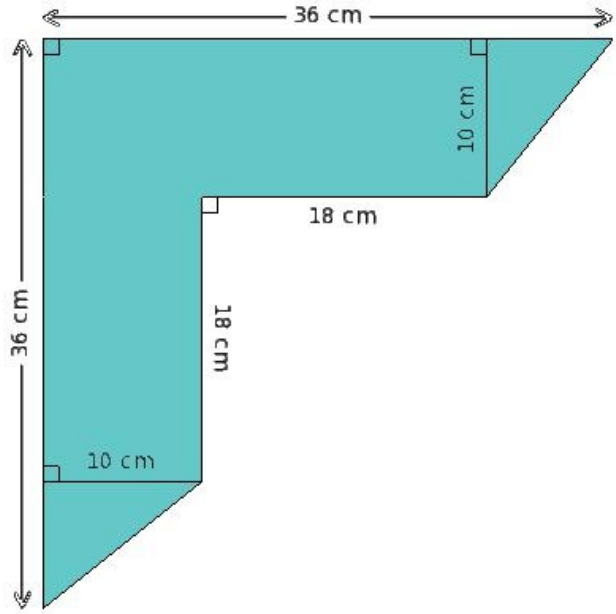
(i) 430.83 sq.cm (ii) 427.83 sq.cm (iii) 428.83 sq.cm (iv) 431.83 sq.cm (v) 429.83 sq.cm

22. Find the area of the shaded region



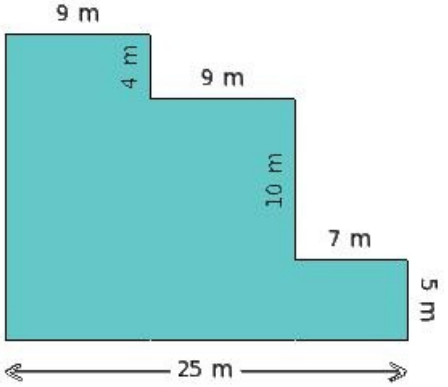
(i) 162.00 sq.cm (ii) 161.00 sq.cm (iii) 160.00 sq.cm (iv) 159.00 sq.cm (v) 158.00 sq.cm

23. Find the area of the shaded region



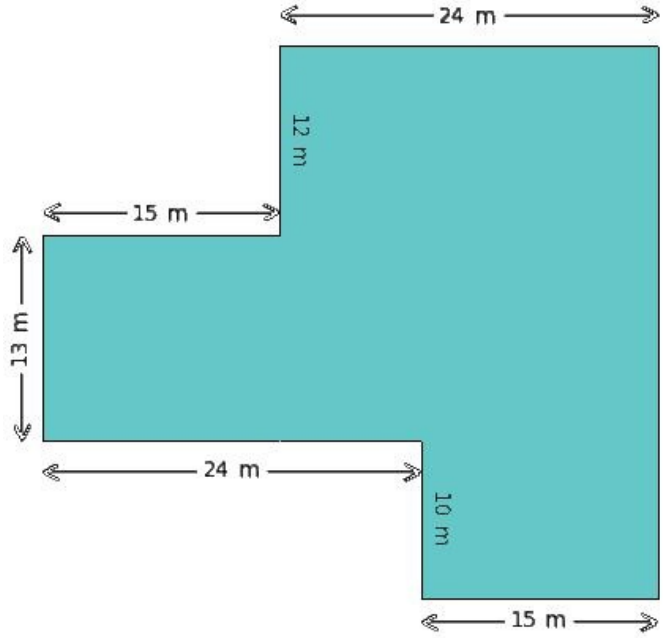
(i) 539.00 sq.cm (ii) 542.00 sq.cm (iii) 541.00 sq.cm (iv) 540.00 sq.cm (v) 538.00 sq.cm

24. Find the perimeter of the shaded region given below



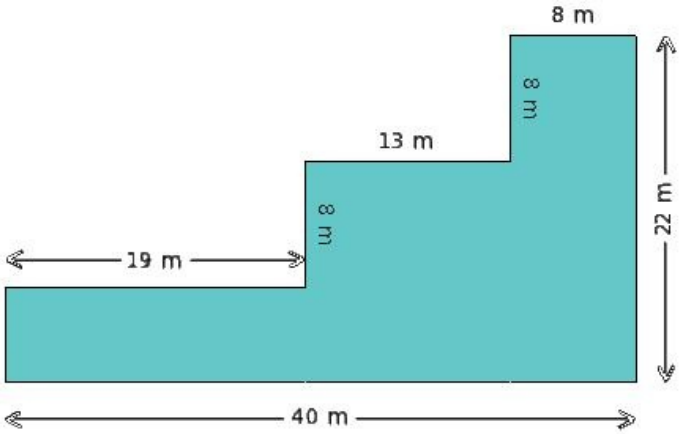
(i) 93.00 m (ii) 85.00 m (iii) 91.00 m (iv) 88.00 m (v) 83.00 m

25. Find the perimeter of the shaded region given below



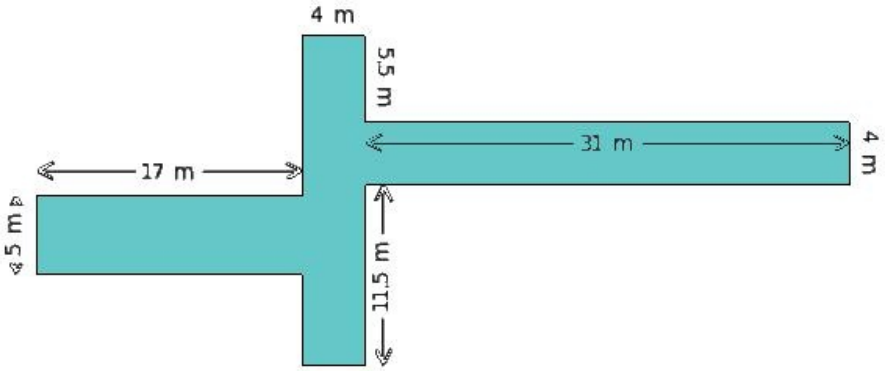
(i) 148.00 m (ii) 121.00 m (iii) 163.00 m (iv) 152.00 m (v) 140.00 m

26. Find the perimeter of the shaded region given below



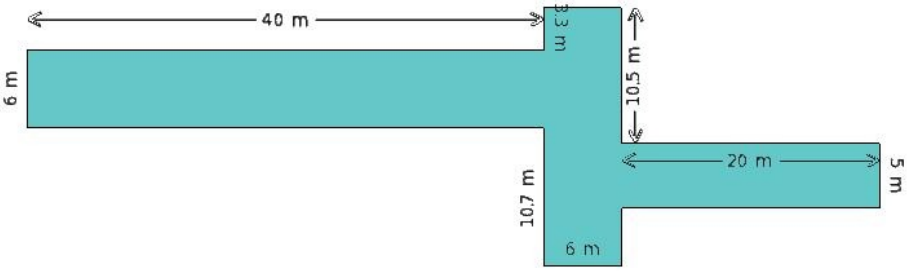
(i) 106.00 m (ii) 110.00 m (iii) 141.00 m (iv) 129.00 m (v) 124.00 m

27. Find the perimeter of the shaded region given below



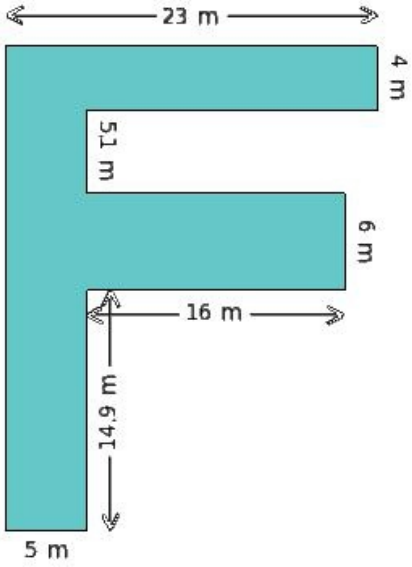
(i) 146.00 m (ii) 172.00 m (iii) 144.00 m (iv) 119.00 m (v) 151.00 m

28. Find the perimeter of the shaded region given below



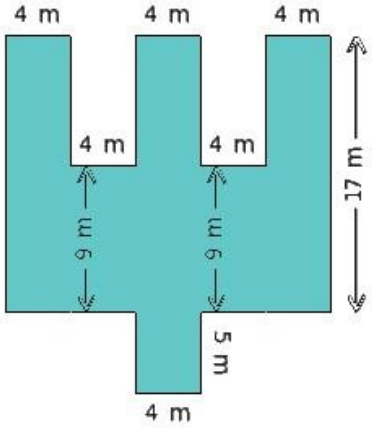
(i) 187.00 m (ii) 176.00 m (iii) 166.00 m (iv) 145.00 m (v) 172.00 m

29. Find the perimeter of the shaded region given below



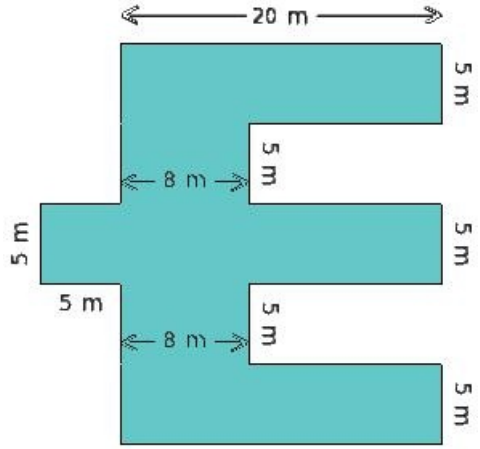
(i) 151.00 m (ii) 165.00 m (iii) 124.00 m (iv) 138.00 m (v) 120.00 m

30. Find the perimeter of the shaded region given below



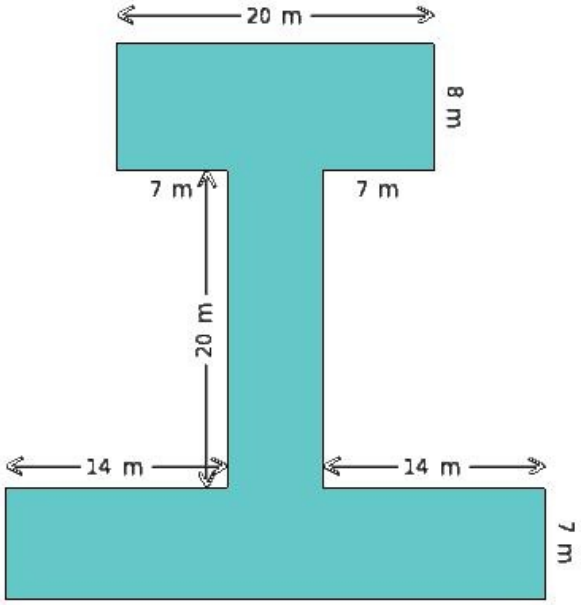
(i) 131.00 m (ii) 116.00 m (iii) 122.00 m (iv) 108.00 m (v) 103.00 m

31. Find the perimeter of the shaded region given below



(i) 131.00 m (ii) 146.00 m (iii) 174.00 m (iv) 165.00 m (v) 148.00 m

32. Find the perimeter of the shaded region given below



(i) 168.00 m (ii) 180.00 m (iii) 160.00 m (iv) 151.00 m (v) 166.00 m

Assignment Key

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