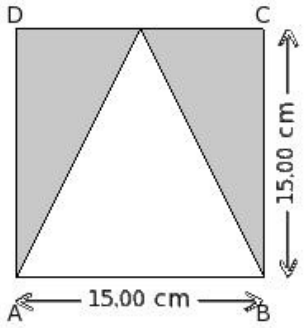
EduSahara™ Assignment

Name : Perimeter and Area of Complex Shapes

Chapter : Perimeter and Area

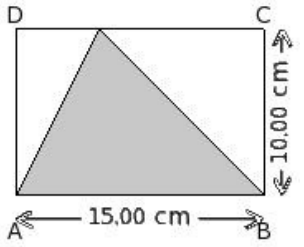
Grade : CBSE Grade VII

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



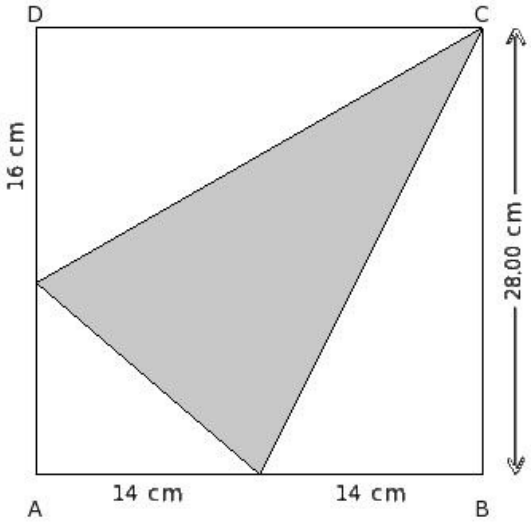
(i) 112.50 sq.cm (ii) 130.50 sq.cm (iii) 86.50 sq.cm (iv) 126.50 sq.cm (v) 99.50 sq.cm

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



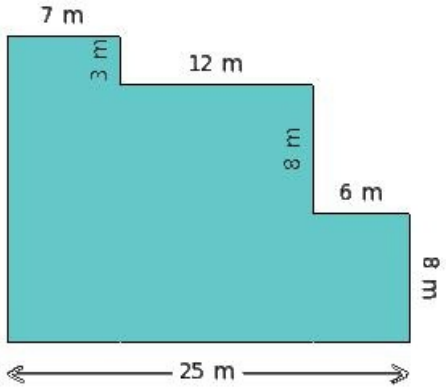
(i) 70.00 sq.cm (ii) 75.00 sq.cm (iii) 78.00 sq.cm (iv) 72.00 sq.cm (v) 80.00 sq.cm

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



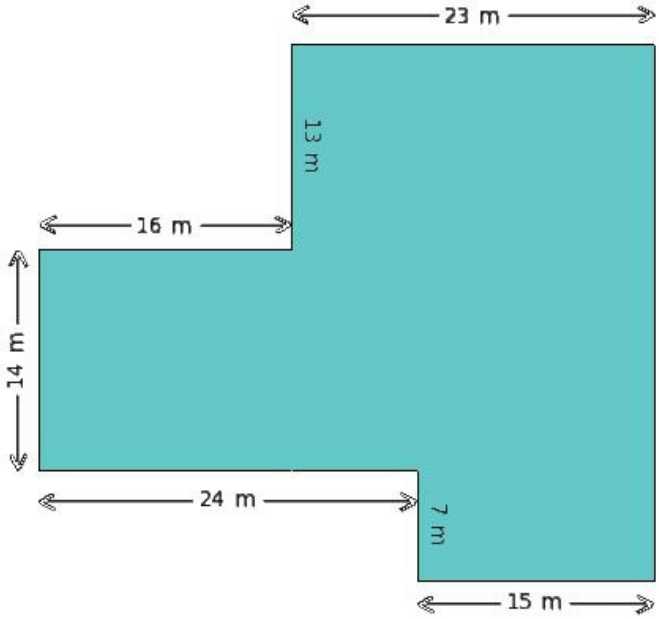
(i) 267.00 sq.cm (ii) 280.00 sq.cm (iii) 275.00 sq.cm (iv) 292.00 sq.cm

4. Find the area of the shaded region given below



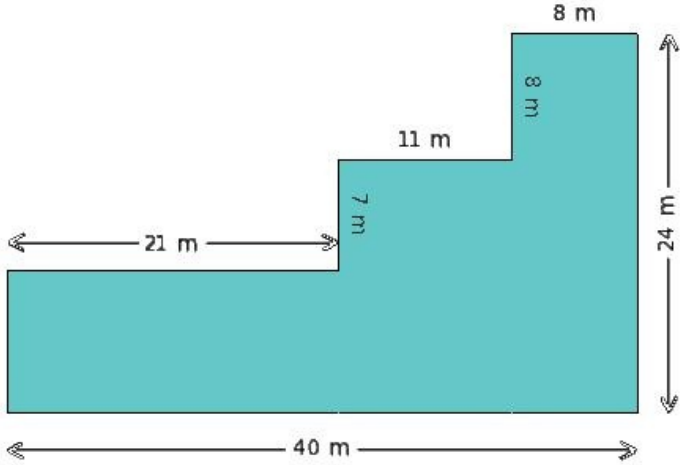
(i) 350.00 sq.m (ii) 376.00 sq.m (iii) 399.00 sq.m (iv) 373.00 sq.m (v) 361.00 sq.m

5. Find the area of the shaded region given below



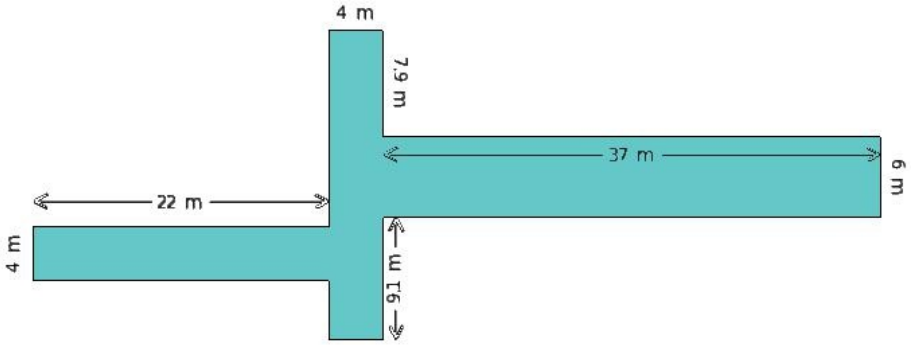
(i) 950.00 sq.m (ii) 925.00 sq.m (iii) 967.00 sq.m (iv) 943.00 sq.m (v) 968.00 sq.m

6. Find the area of the shaded region given below



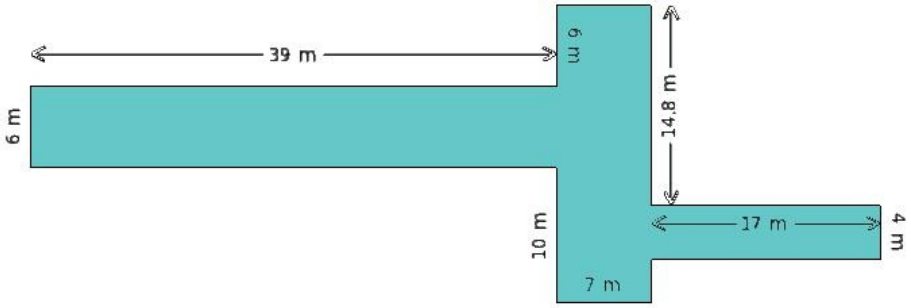
(i) 545.00 sq.m (ii) 563.00 sq.m (iii) 557.00 sq.m (iv) 583.00 sq.m

7. Find the area of the shaded region given below



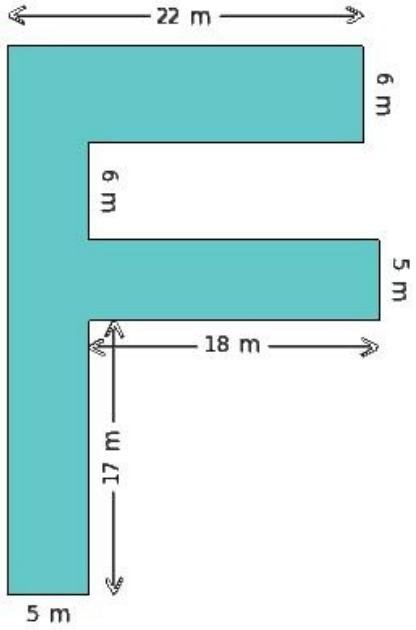
(i) 389.00 sq.m (ii) 418.00 sq.m (iii) 376.00 sq.m (iv) 402.00 sq.m (v) 404.00 sq.m

8. Find the area of the shaded region given below



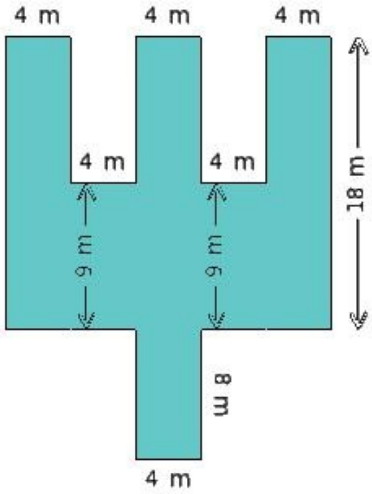
(i) 470.00 sq.m (ii) 456.00 sq.m (iii) 461.00 sq.m (iv) 453.00 sq.m (v) 433.00 sq.m

9. Find the area of the shaded region given below



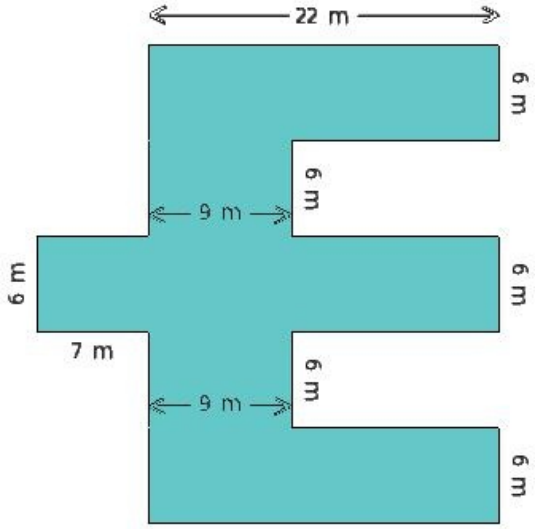
(i) 346.00 sq.m (ii) 384.00 sq.m (iii) 359.00 sq.m (iv) 375.00 sq.m (v) 362.00 sq.m

10. Find the area of the shaded region given below



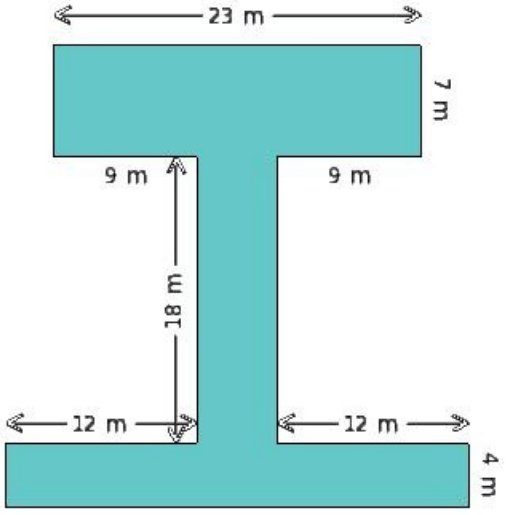
(i) 332.00 sq.m (ii) 337.00 sq.m (iii) 318.00 sq.m (iv) 320.00 sq.m (v) 305.00 sq.m

11. Find the area of the shaded region given below



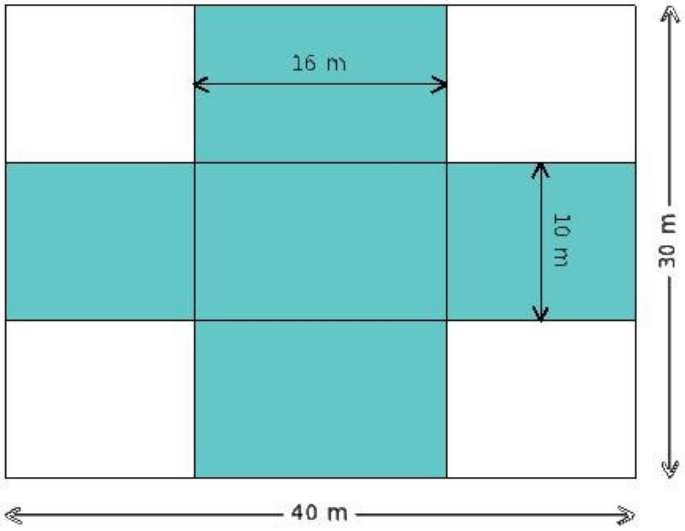
(i) 546.00 sq.m (ii) 528.00 sq.m (iii) 569.00 sq.m (iv) 543.00 sq.m (v) 561.00 sq.m

12. Find the area of the shaded region given below



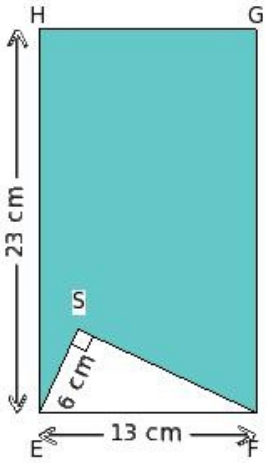
(i) 367.00 sq.m (ii) 375.00 sq.m (iii) 354.00 sq.m (iv) 341.00 sq.m (v) 391.00 sq.m

13. A rectangular field is 40 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 10 m and 16 m respectively. Find the total expense involved in laying tiles on the paths at ₹12.9 per 1 sq.m and laying grass in the remaining portion at ₹19.1 per 1 sq.m.



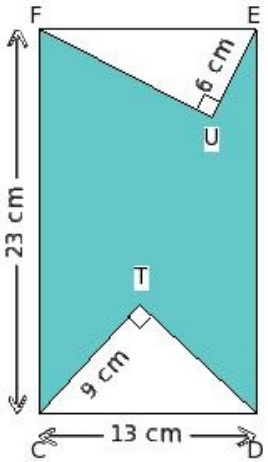
(i) ₹18456.00 (ii) ₹18455.00 (iii) ₹18458.00 (iv) ₹18457.00 (v) ₹18454.00

14. In the given figure, EFGH is a rectangle in which EF = 13 cm and HE = 23 cm. Also, △SEF is a right angled triangle in which ∠FSE = 90° and SE = 6 cm Find the area of the shaded region



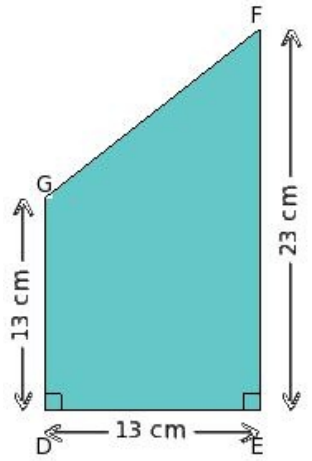
(i) 266.40 sq.cm (ii) 265.40 sq.cm (iii) 263.40 sq.cm (iv) 262.40 sq.cm (v) 264.40 sq.cm

15. In the given figure, CDEF is a rectangle in which CD = 13 cm and FC = 23 cm. Also, △TCD and △UEF are the right angled triangles in which ∠DTC = ∠FUE = 90°, TC = 9 cm and UE = 6 cm. Find the area of the shaded region



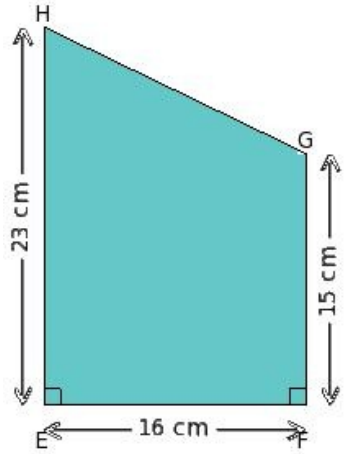
(i) 223.19 sq.cm (ii) 222.19 sq.cm (iii) 220.19 sq.cm (iv) 224.19 sq.cm (v) 221.19 sq.cm

16. Find the area of shaded region in the adjoining figure, given that DE = 13 cm, EF = 23 cm, DG = 13 cm and ∠GDE = ∠DEF = 90°.



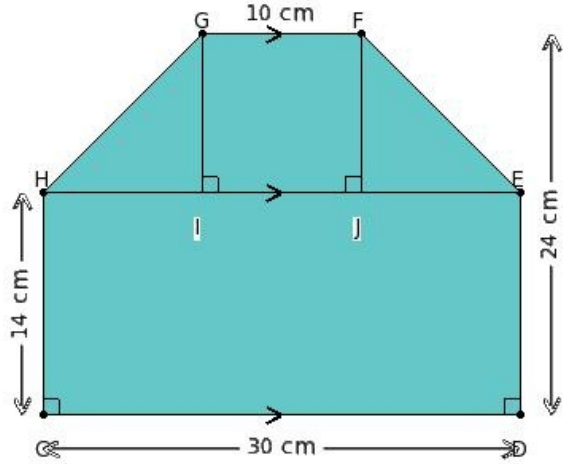
(i) 235.00 sq.cm (ii) 236.00 sq.cm (iii) 232.00 sq.cm (iv) 233.00 sq.cm (v) 234.00 sq.cm

17. Find the area of shaded region in the adjoining figure, given that EF = 16 cm, FG = 23 cm, EH = 15 cm and ∠HEF = ∠EFG = 90°.



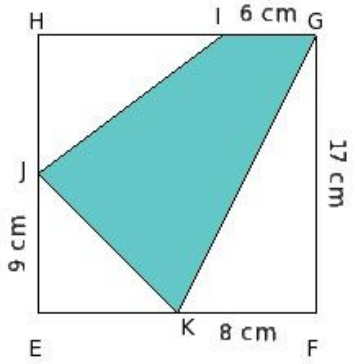
(i) 306.00 sq.cm (ii) 302.00 sq.cm (iii) 303.00 sq.cm (iv) 305.00 sq.cm (v) 304.00 sq.cm

18. Find the area of the shaded region of the adjoining figure, given that ∠HCD = ∠EDC = 90°, GF ∥ CD ∥ HE, GI ⊥ HE, FJ ⊥ HE, HI = JE, CD = 30 cm, CH = 14 cm, GF = 10 cm and distance between CD and GF is 24 cm



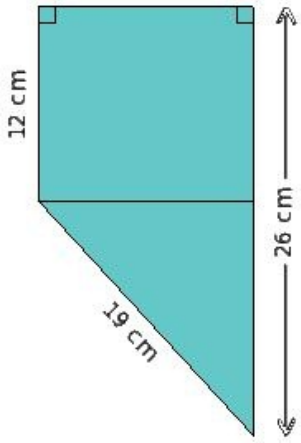
(i) 621.00 sq.cm (ii) 619.00 sq.cm (iii) 620.00 sq.cm (iv) 622.00 sq.cm (v) 618.00 sq.cm

19. Find the area of the shaded region in the adjoining figure, given that EFGH is a square of side 17 cm, GI = 6 cm, JE = 9 cm and FK = 8 cm



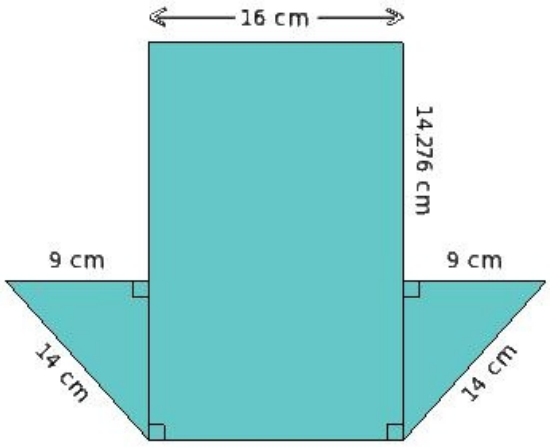
(i) 135.50 sq.cm (ii) 134.50 sq.cm (iii) 136.50 sq.cm (iv) 137.50 sq.cm (v) 138.50 sq.cm

20. Find the area of the shaded region



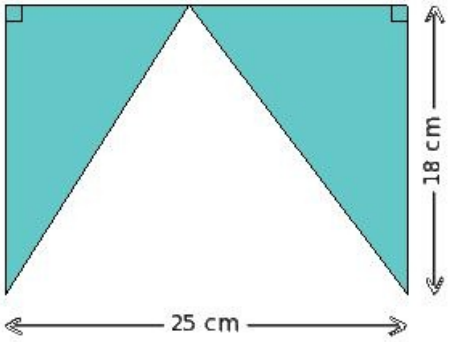
(i) 246.06 sq.cm (ii) 245.06 sq.cm (iii) 243.06 sq.cm (iv) 244.06 sq.cm (v) 242.06 sq.cm

21. Find the area of the shaded region



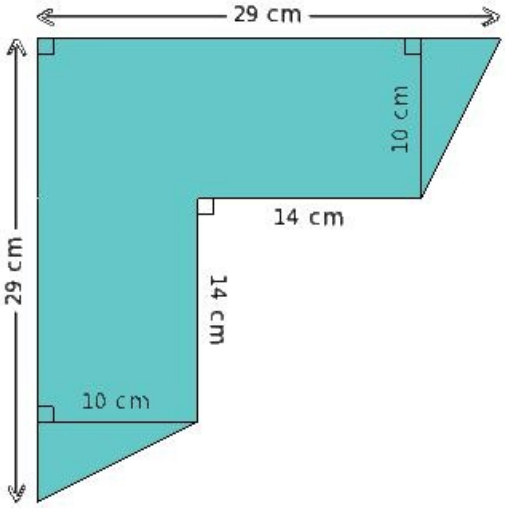
(i) 496.51 sq.cm (ii) 497.51 sq.cm (iii) 495.51 sq.cm (iv) 494.51 sq.cm (v) 498.51 sq.cm

22. Find the area of the shaded region



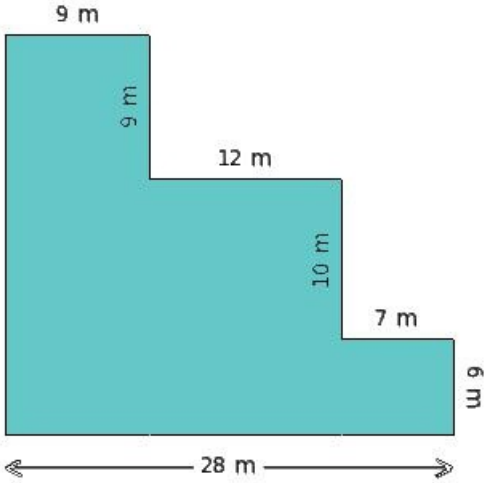
(i) 223.00 sq.cm (ii) 227.00 sq.cm (iii) 225.00 sq.cm (iv) 226.00 sq.cm (v) 224.00 sq.cm

23. Find the area of the shaded region



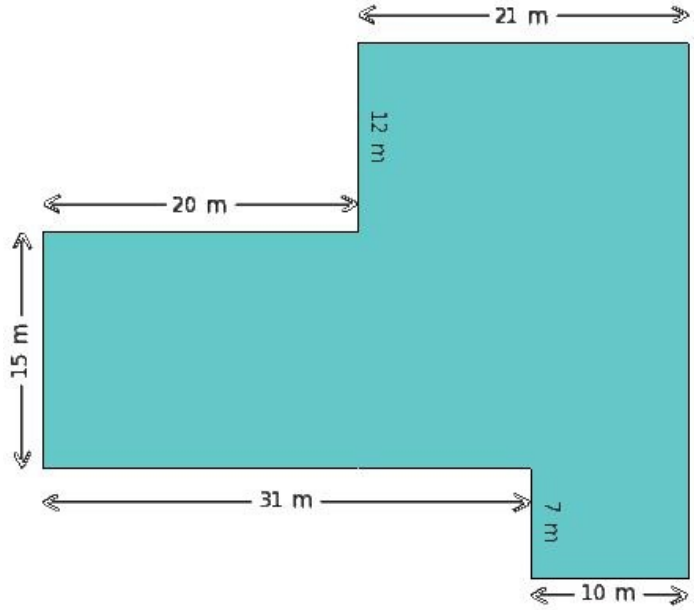
(i) 428.00 sq.cm (ii) 431.00 sq.cm (iii) 429.00 sq.cm (iv) 432.00 sq.cm (v) 430.00 sq.cm

24. Find the perimeter of the shaded region given below



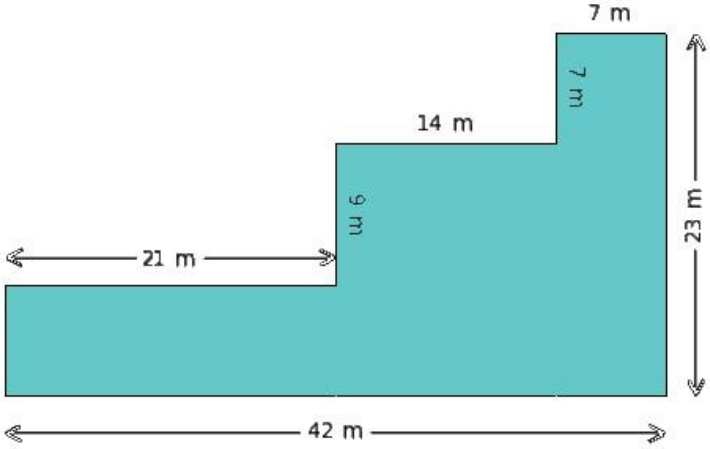
(i) 89.00 m (ii) 120.00 m (iii) 91.00 m (iv) 106.00 m

25. Find the perimeter of the shaded region given below



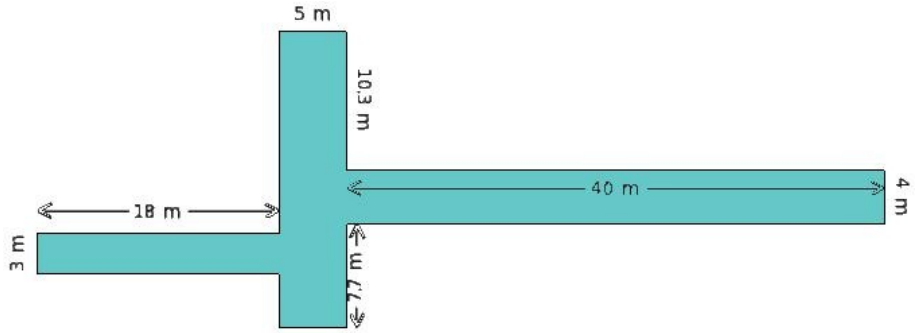
(i) 135.00 m (ii) 163.00 m (iii) 150.00 m (iv) 126.00 m (v) 157.00 m

26. Find the perimeter of the shaded region given below



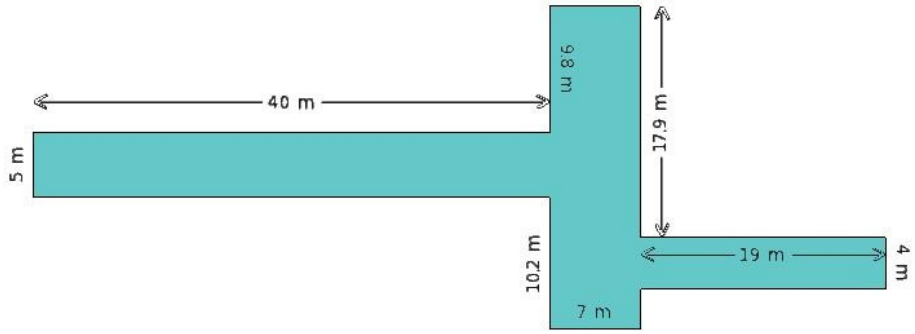
(i) 148.00 m (ii) 103.00 m (iii) 144.00 m (iv) 117.00 m (v) 130.00 m

27. Find the perimeter of the shaded region given below



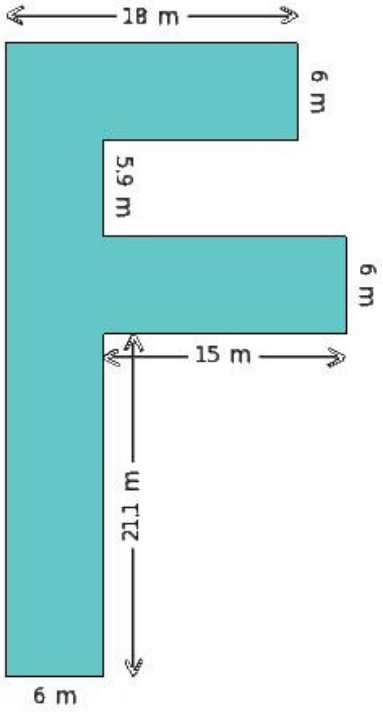
(i) 182.00 m (ii) 163.00 m (iii) 143.00 m (iv) 170.00 m (v) 184.00 m

28. Find the perimeter of the shaded region given below



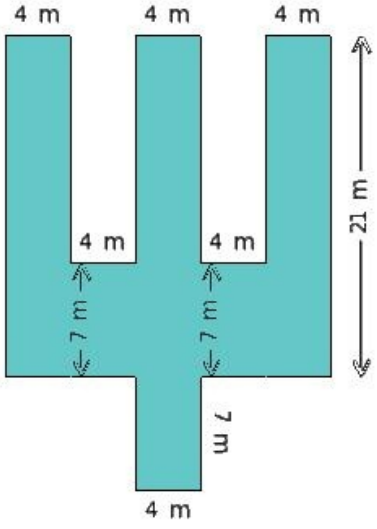
(i) 182.00 m (ii) 158.00 m (iii) 169.00 m (iv) 194.00 m (v) 208.00 m

29. Find the perimeter of the shaded region given below



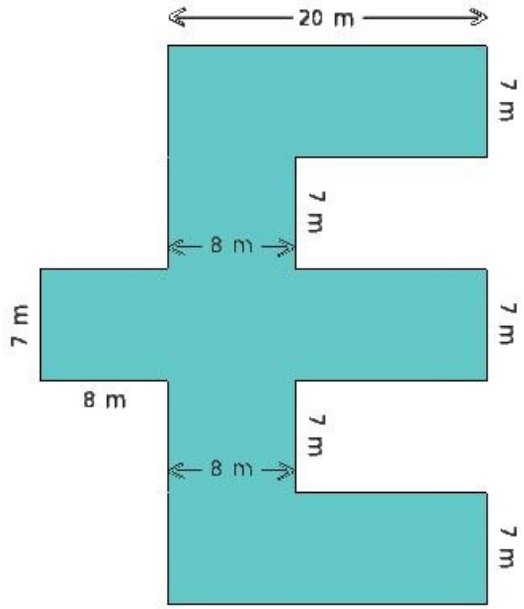
(i) 168.00 m (ii) 144.00 m (iii) 137.00 m (iv) 122.00 m (v) 146.00 m

30. Find the perimeter of the shaded region given below



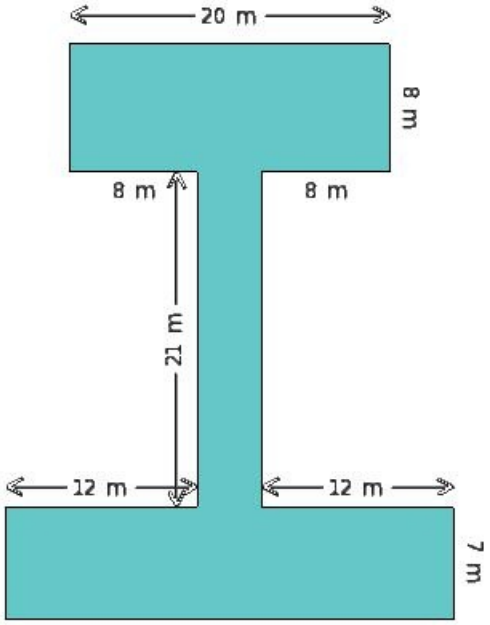
(i) 129.00 m (ii) 152.00 m (iii) 136.00 m (iv) 160.00 m (v) 165.00 m

31. Find the perimeter of the shaded region given below



(i) 147.00 m (ii) 172.00 m (iii) 174.00 m (iv) 187.00 m (v) 199.00 m

32. Find the perimeter of the shaded region given below



(i) 172.00 m (ii) 160.00 m (iii) 144.00 m (iv) 158.00 m (v) 175.00 m

Assignment Key

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