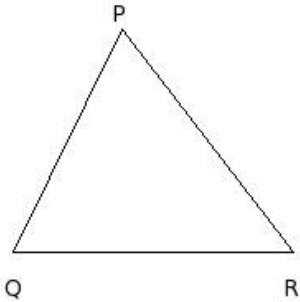


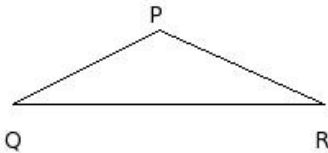


1. In  $\triangle PQR$ , if  $QR = 17$  cm,  $RP = 17$  cm,  $PQ = 15$  cm, then area of the triangle =



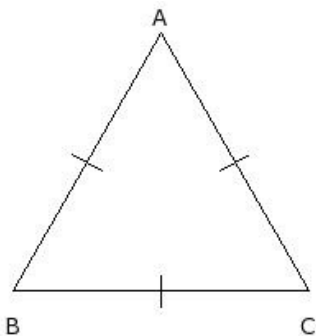
- (i) 122.42 sq.cm (ii) 138.42 sq.cm (iii) 96.42 sq.cm (iv) 99.42 sq.cm (v) 114.42 sq.cm

2. In  $\triangle PQR$ , if  $QR = 19$  cm,  $RP = 11$  cm and perimeter = 40 cm, then area of the triangle =



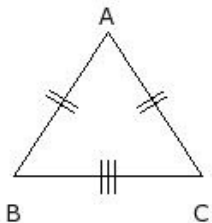
- (i) 47.43 sq.cm (ii) 42.43 sq.cm (iii) 37.43 sq.cm (iv) 45.43 sq.cm (v) 39.43 sq.cm

3. If perimeter of an equilateral triangle 54 cm, the area of the equilateral triangle =



- (i) 134.30 sq.cm (ii) 127.30 sq.cm (iii) 153.30 sq.cm (iv) 158.30 sq.cm (v) 140.30 sq.cm

4. In an isosceles triangle  $\triangle ABC$ , if  $BC = 11$  cm,  $CA = AB$  and perimeter is 31 cm, then area of the triangle =



- (i) 45.93 sq.cm (ii) 50.93 sq.cm (iii) 40.93 sq.cm (iv) 48.93 sq.cm (v) 42.93 sq.cm

5. A triangular park has sides 200 m, 170 m and 190 m. A gardener has to put a fence all around it and also plant grass inside. How much area does he need to plant ?

- (i) 12191.61 sq.m (ii) 14891.61 sq.m (iii) 16091.61 sq.m (iv) 13591.61 sq.m (v) 17391.61 sq.m

- A triangular park has sides 200 m, 140 m and 160 m. A gardener has to put a fence all around it and also plant grass inside. Find the cost of fencing it with barbed wire at the rate of ₹15 per metre leaving a space of 2 m wide for the gate on one side.

(i) ₹7520.00 (ii) ₹7240.00 (iii) ₹7350.00 (iv) ₹7470.00 (v) ₹7630.00

7. The sides of a triangular plot are in the ratio 5:10:7 and perimeter is 440 m. Find its area

(i) 6329.23 sq.m (ii) 6639.23 sq.m (iii) 6319.23 sq.m (iv) 6669.23 sq.m (v) 6499.23 sq.m

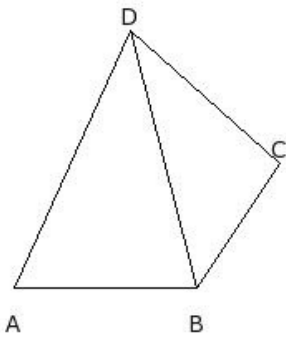
8. A traffic sign board is in the shape of an equilateral triangle. If its perimeter is 48 cm, what is its area?

(i) 93.85 sq.cm (ii) 95.85 sq.cm (iii) 110.85 sq.cm (iv) 117.85 sq.cm (v) 124.85 sq.cm

- Lakshmi has a triangular field with sides 70 m, 90 m and 80 m. She wanted to grow potatoes and chillies. She divided the field into two parts by joining the mid-point of the longest side to the opposite vertex, and grew potatoes in one part and chillies in the other part. How much area has been used for potatoes.

(i) 1111.64 sq.m (ii) 1281.64 sq.m (iii) 1461.64 sq.m (iv) 1341.64 sq.m (v) 1391.64 sq.m

10. Some volunteers on a cleanliness drive decided to clean an open ground in the shape of a quadrilateral ABCD, where  $AB = 11.00$  m,  $BC = 9.00$  m,  $CD = 12.00$  m, and  $DA = 17.00$  m. They split into two groups m and n and started cleaning on either sides of the diagonal BD. Group m marked their perimeter which is of length 44 m. Which group cleaned more area? Find the total area cleaned by both groups.



(i) group m, 122.64 sq.m (ii) group n, 162.64 sq.m (iii) group m, 138.64 sq.m (iv) group n, 155.64 sq.m  
(v) group n, 113.64 sq.m

11. A farmer has a piece of land in the shape of a rhombus. He decided to divide the land into two equal parts such that both his son and daughter could work on the land to produce different crops. If the perimeter of the land is 640.00 m and one of the diagonals is 200 m, how much area will each get for their crops?

(i) 12090.00 sq.m (ii) 13990.00 sq.m (iii) 14090.00 sq.m (iv) 12490.00 sq.m (v) 9690.00 sq.m

12. A rhombus shaped field has green grass for 6 cows to graze. If the perimeter of the field is 440.00 m and one of the diagonals is 160 m, how much area of the grass field will each cow be grazing?

(i) 1843.33 sq.m (ii) 1973.33 sq.m (iii) 2183.33 sq.m (iv) 2013.33 sq.m (v) 2263.33 sq.m

13. A triangle and a parallelogram, both have the same base and the same area. If the sides of the triangle are 28 cm, 14 cm and 23 cm, and the parallelogram stands on the base 14 cm, find the height of the parallelogram

(i) 16.45 cm (ii) 11.45 cm (iii) 14.45 cm (iv) 6.45 cm (v) 8.45 cm

14. A field is in the shape of a trapezium whose parallel sides are 42 m and 12 m. The non parallel sides are 24 m and 22 m. Find the area of the field.

(i) 469.71 sq.m (ii) 481.71 sq.m (iii) 456.71 sq.m (iv) 443.71 sq.m (v) 482.71 sq.m

15. A floral design on a floor is made up of 7 triangular shaped tiles. The sides of each tile are 29 cm, 22 cm and 23 cm. If the cost of polishing the tiles is ₹3.00 per sq cm, find the total cost to polishing all the tiles.

(i) ₹4985.70 (ii) ₹5235.70 (iii) ₹5275.70 (iv) ₹5215.70 (v) ₹5405.70

## Assignment Key

1) (v)	2) (ii)	3) (v)	4) (i)	5) (ii)	6) (iv)
7) (v)	8) (iii)	9) (iv)	10) (iii)	11) (iv)	12) (iv)
13) (ii)	14) (i)	15) (ii)			