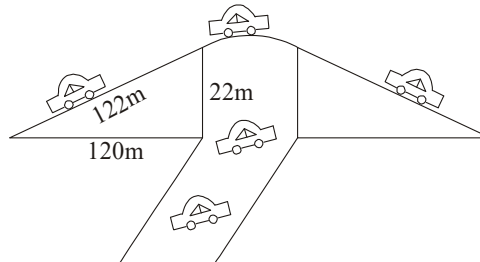






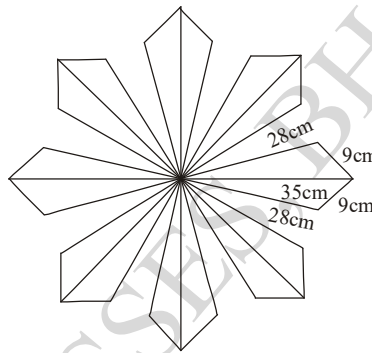
**Section C (Each 3 marks)**

Q.14 : The triangular side-wall of a flyover have been used for advertisements. The sides of the walls are 122m, 22m and 120m (see figure). The advertisements yield an earning of ₹ 5000 per m<sup>2</sup> per year. A company hired one of its walls for 3 months, how much rent did it pay?

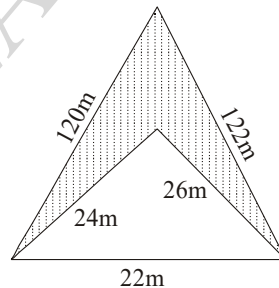


OR

A floral design on a floor is made up of 16 tiles which are triangular, the sides of the triangle being 9cm, 28cm, and 35cm (see in figure) find the cost of polishing the tiles at the rate of 50 P per cm<sup>2</sup>.

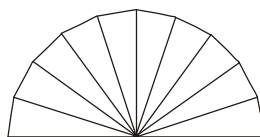


Q.15 : Calculate the area of the shaded region in the given figure.



**Section - D**

Q.16 : A hand fan is made by stitching 10 equal size triangular strips of two different types of paper as shown in fig. The dimensions of equal strips one 25 cm, 25 cm and 14 cm. Find the area of each type of paper needed to make the hand fan.



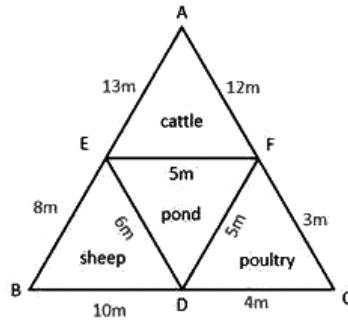
OR

If each side of a triangle is double, then find the ratio of area of the new triangle thus formed and the given triangle.

Q17 : **Case Study 1 : (Any Four)**

4

A farmer has a triangular plot of land with a pond at the centre, which he uses to rear his cattle, sheep and poultry, as shown below.



Now using the given information answer the following.

i) **Find the area of field used for cattle rearing.**

- a)  $30\text{m}^2$       b)  $24\text{m}^2$       c)  $12\text{m}^2$       d)  $6\text{m}^2$

ii) **Find the area of field used to raise sheep.**

- a)  $30\text{m}^2$       b)  $24\text{m}^2$       c)  $12\text{m}^2$       d)  $6\text{m}^2$

iii) **Find the area of field used to raise poultry.**

- a)  $30\text{m}^2$       b)  $24\text{m}^2$       c)  $12\text{m}^2$       d)  $6\text{m}^2$

iv) **Find the area of pond.**

- a)  $30\text{m}^2$       b)  $24\text{m}^2$       c)  $12\text{m}^2$       d)  $6\text{m}^2$

v) **Find the cost of cleaning the pond at the rate of Rs.250 per  $\text{m}^2$ .**

- a) Rs.7500      b) Rs.6000      c) Rs.3000      d) Rs.1500

\* \* \*

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