PUBLIC SCHOOL DARBHANGA

SESSION (2020-21)
CLASS-IX
MATHEMATICS
HERON'S FORMULA
WORKSHEET

1. A kite in the shape of a square with a diagonal 32 cm and an isosceles triangle of base 8 cm and sides 6 cm each is to be made of three different shades as shown in Fig. 12.17. How much paper of each shade has been used in it?

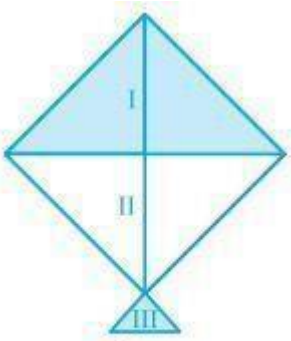


Fig. 12.17

2. A floral design on a floor is made up of 16 tiles which are triangular, the sides of the triangle being 9 cm, 28 cm and 35 cm (see Fig. 12.18). Find the cost of polishing the tiles at the rate of 50p per cm^2 .

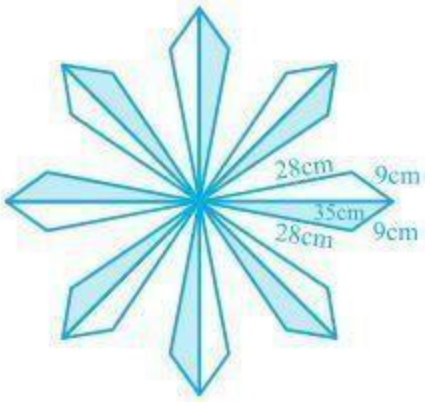
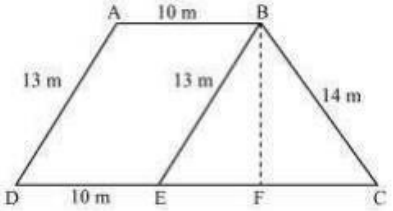


Fig. 12.18

3. A field is in the shape of a trapezium whose parallel sides are 25 m and 10 m. The non-parallel sides are 14 m and 13 m. Find the area of the field.


A
10 m
B
13 m
13 m
14 m
D
10 m
E
F
C

4. An isosceles right triangle has area 8 cm^2. The length of its hypotenuse is

(A) $\sqrt{32}$ cm

(B) $\sqrt{16}$ cm

(C) $\sqrt{48}$ cm

(D) $\sqrt{24}$ cm

5. The perimeter of an equilateral triangle is 60 m. The area is

(A) $10\sqrt{3}\ m^2$

(B) $15\sqrt{3}\ m^2$

(C) $20\sqrt{3}\ m^2$

(D) $100\sqrt{3}\ m^2$