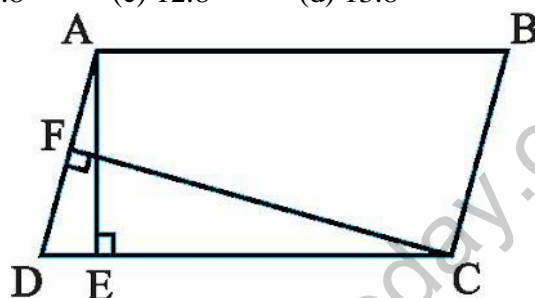
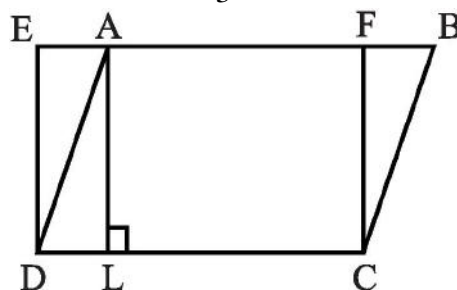


MCQ WORKSHEET-I
CLASS IX: CHAPTER – 9
AREAS OF PARALLELOGRAMS AND TRIANGLES

1. Parallelograms on the same base and between the same parallels are _____ in area.
 (a) half (b) one third (c) one fourth (d) equal
2. If a triangle and a parallelogram are on the same base and between the same parallels, then prove that the area of the triangle is _____ of the area of the parallelogram.
 (a) half (b) one third (c) one fourth (d) equal
3. In the below Fig., ABCD is a parallelogram, $AE \perp DC$ and $CF \perp AD$. If $AB = 16$ cm, $AE = 8$ cm and $CF = 10$ cm, find AD.
 (a) 10.8 (b) 11.8 (c) 12.8 (d) 13.8

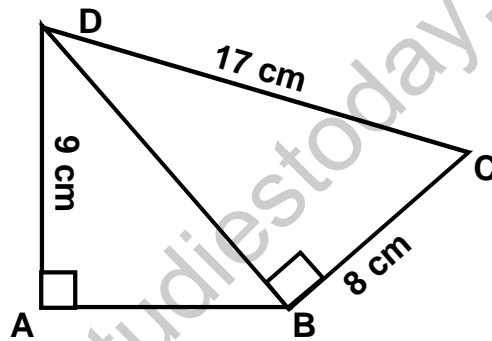


4. In the above Fig., ABCD is a parallelogram, $AE \perp DC$ and $CF \perp AD$. If $AD = 9$ cm, $CF = 4$ cm and $DC = 12$ cm, find AE.
 (a) 3 cm (b) 6 cm (c) 9 cm (d) 2 cm
5. In the above Fig., ABCD is a parallelogram, $AE \perp DC$ and $CF \perp AD$. If $AD = 5$ cm, $CF = 8$ cm and $AE = 4$ cm, find AB.
 (a) 10 cm (b) 20 cm (c) 9 cm (d) 12 cm
6. If E, F, G and H are respectively the mid-points of the sides of a parallelogram ABCD, then ar (EFGH) =
 (a) ar(ABCD) (b) $\frac{1}{2}$ ar(ABCD) (c) $\frac{1}{3}$ ar(ABCD) (d) $\frac{1}{4}$ ar(ABCD)
7. In the below Fig., ABCD is a parallelogram and EFCD is a rectangle, then ar (EFGH) =
 (a) ar(ABCD) (b) $\frac{1}{2}$ ar(ABCD) (c) $\frac{1}{3}$ ar(ABCD) (d) $\frac{1}{4}$ ar(ABCD)



8. Two triangles on the same base (or equal bases) and between the same parallels are _____ in area.
 (a) half (b) one third (c) one fourth (d) equal

9. A median of a triangle divides it into two triangles of _____ areas.
 (a) half (b) one third (c) one fourth (d) equal
10. Area of a triangle is _____ the product of its base and the corresponding altitude.
 (a) half (b) one third (c) one fourth (d) equal
11. Area of a parallelogram is _____ the product of its base and the corresponding altitude.
 (a) half (b) one third (c) one fourth (d) equal
12. The area of a rhombus, the lengths of whose diagonals are 16 cm and 24 cm respectively, is
 (a) 192 cm^2 (b) 120 cm^2 (c) 384 cm^2 (d) none of these
13. The area of a trapezium whose parallel sides are 9 cm and 6 cm and the distance between these sides is 8 cm is
 (a) 92 cm^2 (b) 120 cm^2 (c) 60 cm^2 (d) none of these
14. The area of a below quadrilateral is
 (a) 112 cm^2 (b) 120 cm^2 (c) 114 cm^2 (d) none of these



15. The area of a below quadrilateral is
 (a) 150 cm^2 (b) 180 cm^2 (c) 100 cm^2 (d) none of these

