

VII - Mathematics Assignment No - 04 - Perimeter and Area

Q1. The adjacent sides of a parallelogram are 12 cm and 8 cm. The length of the altitude corresponding to the side 12 cm is 6 cm. Find the length of the altitude corresponding to the other side.

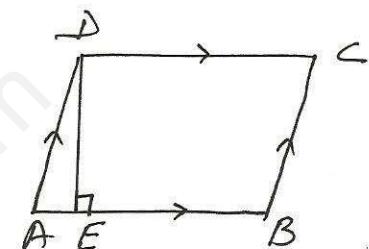
Q2. ABCD is a parallelogram.

(See the figure →)

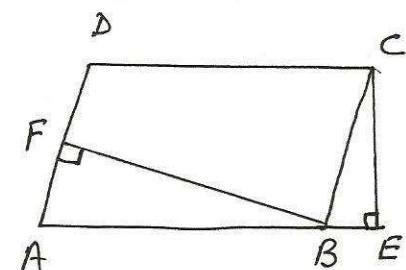
$DE \perp AB = 60\text{ m}$ and

$AD = 50\text{ m}$. If the area of the parallelogram is 2400 m^2 . Find AE

(Hint:- Use Pythagoras theorem in $\triangle DAE$
i.e. $AD^2 = AE^2 + DE^2$)



Q3. In the adjoining figure ABCD is a parallelogram,
 $CE \perp AB$ and $BF \perp AD$

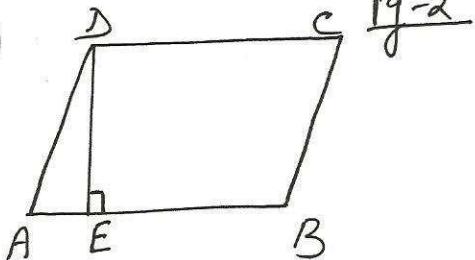


(i) If $AB = 18\text{ cm}$, $AD = 12\text{ cm}$ and $CE = 10\text{ cm}$
Find BF

(ii) If $AB = 25\text{ cm}$, $CE = 15\text{ cm}$, $BF = 20\text{ cm}$
Find AD.

Cont Pg-2

- Q4. ABCD is a 11 gm (parallelogram) Fig-2
 $DE \perp AB$. If $AB = 200\text{ cm}$,
 $AD = 130\text{ cm}$ and area of the
 11 gm is 2.4 m^2 .



Calculate (i) AE (ii) EB .

- Q5. From the figure (given in Q.No. 4) if
 $AB = 8.4\text{ cm}$, $DE = 4.5\text{ cm}$, $AD = 4.2\text{ cm}$.
Find the length of altitude from B to AD.

- Q6. Find the area of rhombus whose base
is 8 m and altitude is 4 m .

- Q7. If the area of rhombus is 120 m^2
and altitude on any side is 8 m . Find
its perimeter

- Q8. Find the area of an equilateral triangle
whose each side is 5 cm .

- Q9. Two sides of a right triangle containing the
right angle are 6.5 cm and 7.2 cm . Find its
area

- Q10. The area of a right triangle is 650 Sq. metres .
If one of the sides containing the right angle is
 25 m . Find the other side.

(Q1) 9 cm	(Q4)(i) 50 cm (ii) 150 cm	(Q7) 60 m	(Q10) 52 m.
(Q2) 30 m		(Q8) $\frac{25\sqrt{3}}{4}\text{ cm}^2$	
(Q3) (i) 15 cm (ii) 18.75 cm	as alt = 9 cm (Q6) 32 m^2	(Q9) 23.4 cm	