Areas of Parallelograms and Triangles Ex 15.2 Q3

Answer :

Given: Here in the question it is given that

(1) Area of paralleogram ABCD = 124 cm^2

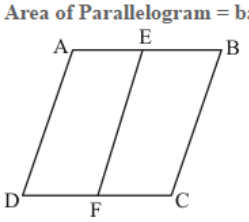
(2) E is the midpoint of AB, which means $AE = \frac{1}{2}(AB)$

(3) F is the midpoint of CD, which means $DF = \frac{1}{2}(CD)$

To Find : Area of Parallelogram AEFD

Calculation: We know that formula for calculating the

Area of Parallelogram = base × height



Therefore,

Area of paralleogram ABCD = AB × AD (Taking base as AB and Height as AD) .....(1)

Therefore,

Area of paralleogram AEFD = AE × AD (Taking base as AB and Height as AD) .....(2)

$= \frac{1}{2}AB \times AD \left(AE = \frac{1}{2}AB\right)$

$= \frac{1}{2}$ Area of Parallelogram ABCD (from equation1)

$= \frac{1}{2}(124)$

$\boxed{= 62\ cm^2}$

Hence we got the result **Area of Parallelogram AEFD** $\boxed{= 62\ cm^2}$

********** END **********