

Areas of Parallelograms and Triangles Ex 15.2 Q3 **Answer**:

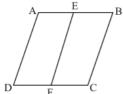
Given: Here in the question it is given that

- (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 \times AD (Taking base as AB and Height as AD)(1)

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

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

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

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

 $=62 \text{ cm}^2$

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

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