



## MATHS

## NCERT - NCERT MATHS (KANNADA ENGLISH)

## AREAS

## Example

1. Triangle ABC and parallelogram ABEF are on the same base, AB as in between the same parallels AB and EF. Prove that ar  $(\Delta ABC) = rac{1}{2}$  ar(|| gm ABEF)



**2.** Find the area of a figure formed by joining the mid-points of the adjacent sides of a rhombus with diagonals 12 cm. and 16 cm.

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3. Prove that the median of  $\Delta$  ABC divides it into

two triangles of equal area..



**4.** In the figure, ABCD is a quadrilateral. AC is the diagonal and DE || AC and also DE meets BC produced at E. Show that  $ar(ABCD) = ar(\Delta ABE)$ .

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5. In the figure , AP || BQ || CR. Prove that ar  $(\Delta AQC) = {\rm ar} \; (\Delta PBR) \; .$ 

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Think Discuss And Write



square cm. represent?



**2.** Rajni says 1 sq.m =  $100^2$  sq.cm. Do you agree?

Explain.

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**3.** Which of the following figures lie on the same base and between the same parallels. In shuch a

case, write the common base and the two prarllels.



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**1.** P and Q are any two points lying on the sides DC and AD respectively of a parallelogram ABCD. Show

that ar (APB) = ar (BQC).



2. In, PQRS and ABRS are parallelograms and X is any point on side BR. Show that ar (PQRS) = ar (ABRS)



3. Prove that the area of a rhombus is equal to half

of the product of the diagonals.





**1.** Diagonals AC and BD of a trapezium ABCD with AB||DC intersect each other at O. Prove that ar (AOD) = ar (BOC).



2. In, ABCDE is a pentagon. A line through B parallel

to AC meets DC produced at F. Show that

(i)ar (ACB) = ar (ACF)

(ii)ar (AEDF) = ar(ABCDE)







then show that both the quadrilaterals PQSR and

RSBA are trapeziums.





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**4.** A villager Itwaari has a plot of land of the shape of a quadrillateral. The Gram Panchayat of the village decieded to take over some portion of his plot from one of the corners to construct a Health Centre. Itwaari agrees to the above proposal with the condition that he should be given equal amount of land in lieu of his land adjoining his plot so as form a triangular plot. Explain how this proposal will be implemented.

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