



## MATHS

### BOOKS - CAMBRIDGE MATHS (KANNADA ENGLISH)

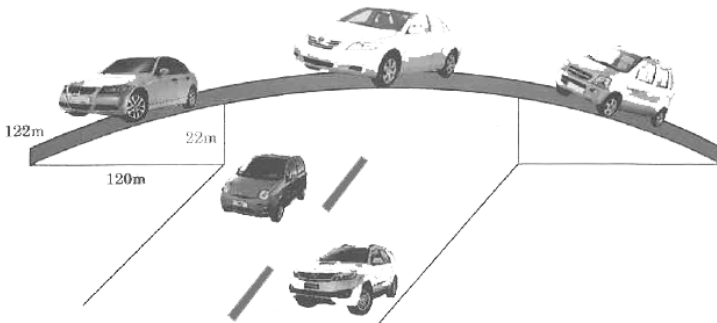
#### HERON'S FORMULA

##### Exercise 8.1

1. A traffic signal board, indicating 'SCHOOL AHEAD', is an equilateral triangle with side 'a'. Find the area of the signal board, using Heron's formula. If its perimeter is 180 cm. What will be the area of the signal board?

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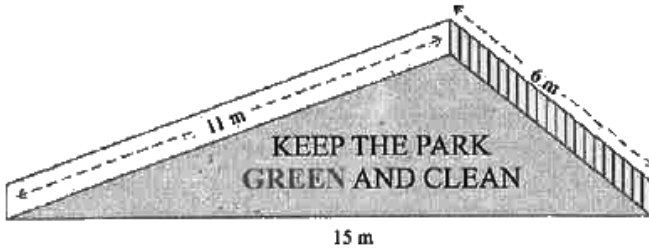
2. The triangular side walls of a flyover have been used for advertisements. The sides of the walls are 122 m, 22 m and 120 m. The advertisements yield an earning of Rs 5000 per  $m^2$  per year . A company hired one of its walls for 3 months. How much rent did it pay ?



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3. There is a slide in a park. One of its side walls has been painted in some colour with a message "KEEP THE PARK GREEN AND CLEAN". If the sides of the wall are 15 m, 11 m and 6 m, find

the area painted in colour.



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4. Find the area of a triangle two sides of which are 18 cm and 10 cm and the perimeter is 42cm.

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5. Sides of a triangle are in the ratio of 12 : 17 : 25 and its perimeter is 540 cm. Find its area.

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6. An isosceles triangle has perimeter 30 cm and each of the equal sides is 12 cm. Find the area of the triangle.

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## Exercise 8.2

1. A part , in the shape of a quadrilateral ABCD , has  $\angle C = 90^\circ$ ,  $AB = 9m$ ,  $BC = 12cm$ ,  $CD = 5cm$  and  $AD = 8m$ . How much area does it occupy ?

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2. Find the area of a quadrilateral ABCD in which  $AB = 3 \text{ cm}$  ,  $BC = 4 \text{ cm}$ ,  $CD = 4 \text{ cm}$  ,  $DA = 5 \text{ cm}$  and  $AC = 5 \text{ cm}$ .



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3. Radha made a picture of an aeroplane with coloured paper as shown in fig. Find the total area of the paper used.



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4. A triangle and a parallelogram have the same base and the same area . If the sides of triangle are  $26 \text{ cm}$ ,  $28 \text{ cm}$  and  $30 \text{ cm}$  , and the parallelogram stands on the base  $28 \text{ cm}$ , find the height of the parallelogram.



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5. A rhombus shaped field has green grass for 18 cows to graze. If each side of the rhombus is 30 m and its longer diagonal is 48 m , how much area of grass field will each cow be getting ?



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6. An umbrella is made by stitching 10 triangular pieces of cloth of two different colours each piece measuring 20 cm , 50 cm and 50 cm. How much cloth of each colour is required for the umbrella ?



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7. A kite in the shape of a square with diagonal 32 cm and an isosceles triangle of base 8 cm and sides 6 cm each is to be made of three different shades as shown in fig. How much paper of each shade has been used in it ?



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8. A floral design on a floor is made up of 16 tiles which are triangular, the sides of the triangle being 9 cm, 28 cm and 35 cm. Find the cost of polishing the tiles at the rate of 50 paise  $\text{cm}^2$ . (see the given figure).



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9. A field is in the shape of a trapezium whose parallel sides are 25 m and 100. The nonparallel sides are 14 m and 13 m. Find the area of the field.



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