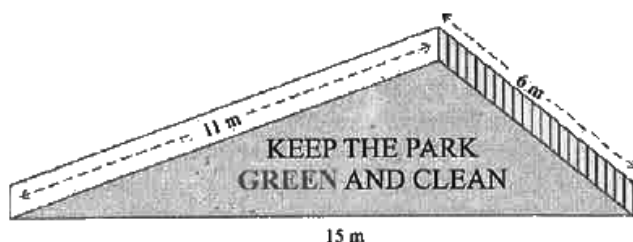# MATHS

BOOKS - VIDHYASANGAM - RAO'S ACADEMY MATHS (KANNADA ENGLISH)

HERON'S FORMULA

EXERCISE 8.1

1. 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.

KEEP THE PARK
GREEN AND CLEAN

11 m

6 m

15 m

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

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

4. 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 park, in the shape of a quadrilateral ABCD, has $C = 90°$, AB = 9 m, BC = 12 m, CD = 5 m

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 cm, BC = 4 cm, CD = 4 cm, DA = 5 cm and AC = 5 cm.
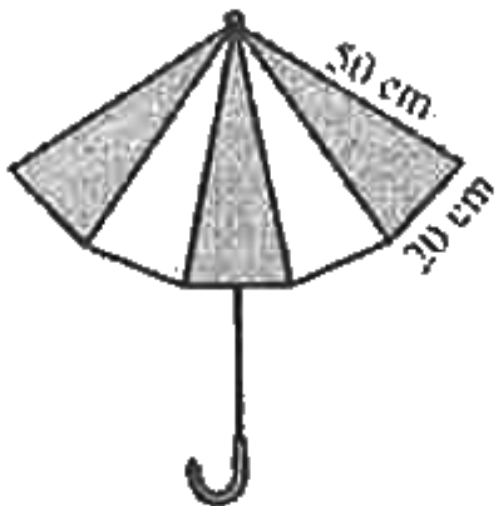
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3. A rhombus shaped field has green grass for 18 cows to graze. If each side of the rhombus is 30 m and its longer diagonal is 48 m, how much area of grass field will each cow be getting?

4. 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?

5. A field is in the shape of a trapezium whose parallel sides are 25 m and 10 m. The non -

parallel sides are 14 m and 13 m. Find the area

of the field.