

EMIRATES ENGLISH SPEAKING SCHOOL, DUBAI
HOLIDAY HOMEWORK- GRADE-9
HERONS FORMULA

Name: _____

Division: _____

1. The perimeter of a triangular field is 450 m and its sides are in the ratio 13:12:15. Find the area of the triangle.
2. The lengths of the sides of a triangle are 5 cm; 12 cm and 13 cm. Find the length of the perpendicular from the opposite vertex to the side whose length is 13 cm.
3. The perimeter of a right triangle is 450 m. If its sides are in the ratio 13: 12: 5. Find the area of the triangle.
4. Find the area of a triangle whose two sides are 8 cm and 11cm and the perimeter is 32cm.
5. Find the area of a rhombus whose perimeter is 80m and one of diagonal is 24m.
6. A floral design on a floor is made up of 16 tiles that are triangular, the sides of the triangle being 9cm, 28cm and 35cm. Find the area of the floral design.
7. Sammera owns a piece of land which is in the shape of a rhombus. She wants her daughter and son to work on the land and produce different crops to suffice the needs of their family. She divided the land in 4 equal parts gave 3 parts to her daughters and one part to a landless widow. If the perimeter of the land is 400 m and one of the diagonals is 160 m, how much area each of them will get? What qualities of Sameera are depicted here?
8. A kite is in the shape of a square with diagonal 32 cm and an isosceles triangle of base 8cm and equal sides are 6cm. How much paper is required to build the kite?
9. Find the area of the trapezium whose parallel sides are 25 cm, 13 cm and other sides are 15 cm and 15 cm.
10. The side of a quadrilateral taken in order is 5m, 12m, 14m and 15m respectively and the angle formed by the first two sides is right angles find its area.
11. The parallel sides of an isosceles trapezium are 20 cm and 10 cm. If its non-parallel side is 13 cm. find the area of the trapezium.
12. Given below is the shape of the rocket made by Nasal. Calculate the area of paper used to make it.

