Area Perimeter of Triangle (1)

1. Find the area of a triangle, sides of which are 10 cm and 9 cm and the perimeter 36 cm.
2. The area of a right-angle triangle is 40 sq cm. If its base is equal to 28cm find its height.
3. The area of a right triangle is 184 cm² and one of its legs is 16 cm long. Find the length of other leg.
4. Find the length of the altitude of an equilateral triangle of side $9\sqrt{3}$ cm.
5. Find the height of a triangle whose base is 50 cm and whose area is 500 cm².
6. Find the base of a triangle whose altitude is 20 cm and area is 0.8 m².
7. A triangle with three equal sides has its area equal to $3\sqrt{3}$ sq cm. Find its perimeter.
8. Find the area of an equilateral triangle, the length of whose sides is 12 cm.
9. The area of an equilateral triangle is $4\sqrt{3}$ sq cm. Find the length of each side of triangle.
10. The base and height of a triangle are in the ratio 8: 5 and its area is 320 m². Find the height and base of the triangle.
11. Find the area of a right-angled triangle whose hypotenuse is 13 cm and one of its sides containing the right angle is 12 cm. Find the length of the other side.
12. The area of a right triangle is 184 cm² and one of its legs is 16 cm long. Find the length of other leg.
13. The perimeter of an isosceles triangle is 26 cm while equal sides together measure 20 cm. Find the third side and each of the equal sides are respectively.
14. The base of a triangle will be 7 times its height. If the cost of painting the wall at Rs. 350 per 100 sq m is Rs. 1225. Then what is the base length.
15. The area of the triangle is equal to that of square who's each side measures 30 cm. Find the side of the triangle whose corresponding altitude is 36 cm.

Answers

1) 36 cm²
2) 2 6/7 cm
3) 23 cm
4) 13.5 cm
5) 20 cm
6) 8 m
7) $6\sqrt{3}$ cm
8) 62.352 cm²
9) 4 cm
10) Base= 32 cm, Height =20 cm
11) 5 cm, 30 cm²
12) 23 cm
13) 6 cm and 10 cm
14) 70 m
15) 50 cm