

CLASS 9 · HOTS · OLYMPIAD PREPARATION · DPP SHEET

Chapter 6: HOTS: Perimeter and Area (Class 9)

Daily practice problems: 8 questions with an answer key

Try every question on your own first. The answer key is on the last page.

1. Find the area of a triangle with sides 13 cm, 14 cm and 15 cm.
2. In quadrilateral ABCD, $\angle B = 90^\circ$, $AB = 9$ cm, $BC = 12$ cm, $CD = 8$ cm and $DA = 17$ cm. Find its area.
3. Find the area of an equilateral triangle of side 10 cm.
4. A wire in the form of a circle of radius 14 cm is bent into a square. Find the area of the square (take $\pi = \frac{22}{7}$).
5. The perimeter of a rhombus is 40 cm and one diagonal is 12 cm. Find the other diagonal and the area.
6. Find the area of a parallelogram with base 12 cm and height 7.5 cm.
7. Find the area of a trapezium whose parallel sides are 10 cm and 14 cm and whose height is 6 cm.
8. Find the area of an isosceles triangle with sides 5 cm, 5 cm and 6 cm.

Answer Key

1. 84 square cm.
2. 114 square cm (the triangle ABC has area 54 and triangle ACD, with sides 15, 8 and 17, has area 60).
3. $25\sqrt{3}$ square cm.
4. 484 square cm.
5. 16 cm and 96 square cm.
6. 90 square cm.
7. 72 square cm.
8. 12 square cm.

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