

Sample Paper Class 9th

Ch- 9 Areas of Parallelograms and Triangles

Section A: (1 mark each)

1. Define the area of a parallelogram.
2. State the formula for the area of a triangle.
3. If the base of a triangle is 8 cm and its height is 6 cm, find the area.
4. What is the area of a parallelogram with base 10 cm and height 5 cm?
5. In a parallelogram, the base is 12 cm and the height is 7 cm. Calculate the area.

Section B: (2 marks each)

6. Find the area of a triangle with a base of 12 cm and height 8 cm.
7. If the area of a parallelogram is 48 cm^2 and the base is 6 cm, find its height.
8. A triangle has a base of 20 cm and height of 15 cm. Find the area of the triangle.
9. If the area of a parallelogram is 72 cm^2 and its height is 9 cm, what is its base?
10. Find the area of a triangle with base 10 cm and height 9 cm.

Section C: (3 marks each)

11. A triangle and a parallelogram have the same base and height. If the area of the parallelogram is 40 cm^2 , what is the area of the triangle?
12. A parallelogram has a base of 15 cm and height 6 cm. Another parallelogram has a base of 10 cm and the same height. Find the area of both parallelograms.
13. The area of a triangle is 60 cm^2 , and its base is 12 cm. Find its height.
14. In a parallelogram, one side is 5 cm and the height is 3 cm. Find the area of the parallelogram.

Section D: (4 marks each)

15. Find the area of a triangle with a base of 18 cm and a height of 12 cm.
16. A parallelogram has a base of 10 cm and a height of 8 cm. Find the area of the parallelogram and the area of a triangle formed by one of its diagonals.
17. A parallelogram has an area of 96 cm^2 . If the base is 12 cm, find the height of the parallelogram and the diagonal lengths.
18. A triangle has a base of 16 cm and a height of 9 cm. Calculate the area of the triangle and then compare it with the area of a rectangle having the same base and height.
19. In a triangle, the base is 25 cm and the height is 15 cm. Find the area of the triangle, and also verify using the area of a parallelogram.

Section E: (5 marks each)

20. The base of a triangle is 20 cm, and its height is 18 cm. Find its area and then calculate the area of a parallelogram that has the same base and height.

21. If the area of a triangle is 72 cm^2 and its base is 18 cm , calculate the height of the triangle and the base and height of a parallelogram with an equivalent area.