

On further calculation AB² = 676 - 576 By subtraction AB² = 100 By taking out the square root AB = √100 So we get Base = AB = 10cm

We know that area of \triangle ABD = ½ × b × h By substituting the values Area of \triangle ABD = ½ × 10 × 24 On further calculation Area of \triangle ABD = 120 cm²

We know that the area of \triangle BCD = $\sqrt{3}/4$ a² By substituting the values Area of \triangle BCD = (1.73/4) $(26)^2$ So we get Area of \triangle BCD = 292.37 cm²

So we get area of quadrilateral ABCD = Area of △ ABD + Area of △ BCD By substituting the values Area of quadrilateral ABCD = 120 + 29237 By addition Area of quadrilateral ABCD = 412.37 cm²

The perimeter of quadrilateral ABCD = AB + BC + CD + DA By substituting the values Perimeter = 10 + 26 + 26 + 24 So we get Perimeter = 86cm

Therefore, the area is 412.37 cm² and perimeter is 86cm.

25. Find the area of a parallelogram ABCD in which AB = 28 cm, BC = 26 cm and diagonal AC = 30 cm.



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