

# Assignments for Mensuration

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## Question 1

Find the area of a trapezium whose parallel sides are 12 cm and 20 cm and the distance between them is 15 cm.

## Question 2

Find the area of a trapezium whose parallel sides are 38.7 cm and 22.3 cm, and the distance between them is 18 cm.

## Question 3

The area of a trapezium is  $1440 \text{ cm}^2$ . If the lengths of its parallel sides are 54.6 cm and 35.4 cm, find the distance between them.

## Question 4

The area of a trapezium is  $1586 \text{ cm}^2$  and the distance between its parallel sides is 26 cm. If one of the parallel sides is 84 cm, find the other.

## Question 5

The area of a trapezium is  $384 \text{ cm}^2$ . Its parallel sides are in the ratio 2: 6 and the perpendicular distance between them is 12 cm. Find the length of each of the parallel sides.

## Question 6

Mitesh wants to buy a trapezium shaped field. Its side along the river is parallel to and twice the side along the road. If the area of this field is  $10500 \text{ m}^2$  and the perpendicular distance between the two parallel sides is 100 m, find the length of the side along the river.

## Question 7

The area of a trapezium is  $180 \text{ cm}^2$  and its height is 9 cm. If one of the parallel sides is longer than the other by 6 cm, find the two parallel sides.

**Question 8**

The parallel sides of a trapezium are 20 cm and 10 cm. Its nonparallel sides are both equal, each being 13 cm. Find the area of the trapezium.

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