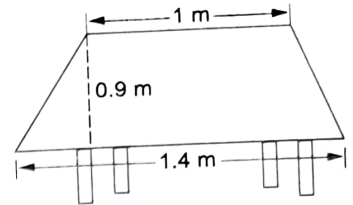
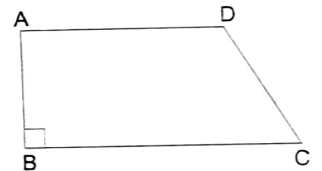


EXERCISE 18A

- Find the area of a trapezium whose parallel sides are 24 cm and 20 cm and the distance between them is 15 cm.
- Find the area of a trapezium whose parallel sides are 38.7 cm and 22.3 cm, and the distance between them is 16 cm.
- The shape of the top surface of a table is trapezium. Its parallel sides are 1 m and 1.4 m and the perpendicular distance between them is 0.9 m. Find its area.

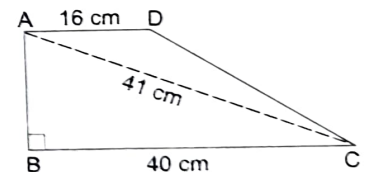


- The area of a trapezium is 1080 cm^2 . If the lengths of its parallel sides be 55 cm and 35 cm, find the distance between them.
- A field is in the form of a trapezium. Its area is 1586 m^2 and the distance between its parallel sides is 26 m. If one of the parallel sides is 84 m, find the other.
- The area of a trapezium is 405 cm^2 . Its parallel sides are in the ratio 4 : 5 and the distance between them is 18 cm. Find the length of each of the parallel sides.
- The area of a trapezium is 180 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.
- In a trapezium-shaped field, one of the parallel sides is twice the other. If the area of the field is 9450 m^2 and the perpendicular distance between the two parallel sides is 84 m, find the length of the longer of the parallel sides.
- The length of the fence of a trapezium-shaped field $ABCD$ is 130 m and side AB is perpendicular to each of the parallel sides AD and BC . If $BC = 54 \text{ m}$, $CD = 19 \text{ m}$ and $AD = 42 \text{ m}$, find the area of the field.



- In the given figure, $ABCD$ is a trapezium in which $AD \parallel BC$, $\angle ABC = 90^\circ$, $AD = 16 \text{ cm}$, $AC = 41 \text{ cm}$ and $BC = 40 \text{ cm}$. Find the area of the trapezium.

Hint. $AB^2 = (AC^2 - BC^2)$.



- 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.
- The parallel sides of a trapezium are 25 cm and 11 cm, while its nonparallel sides are 15 cm and 13 cm. Find the area of the trapezium.