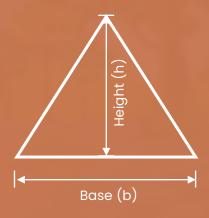
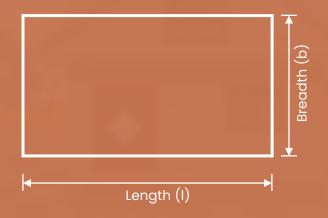
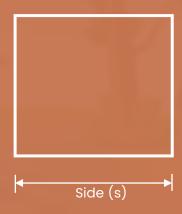




Area of the Plane Figures







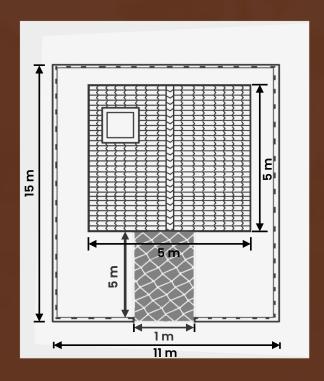
Area of a triangle = $\frac{1}{2} \times b \times h$

Area of a rectangle = $l \times b$

Area of a square = s^2



Area for gardening:







If the sides of a rectangle are in the ratio of 1:3 and its perimeter is 16 cm, then what will be its area?

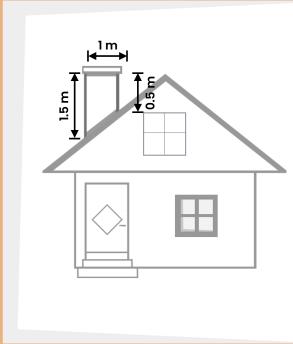




If the sides of a rectangle are in the ratio of 1:3 and its perimeter is 16 cm, then what will be its area?









Area of a Trapezium

Grade: — 08 KL

Chapter: Area of Quadrilaterals

BTLA: Area of Trapezium

Timings: 00:00:14 - 00:02:32

Start: Let's see if we've a trapezium....

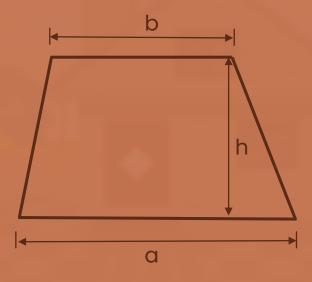
End: ...height into sum of parallel sides.

Duration: 00:02:18

Link ———— -



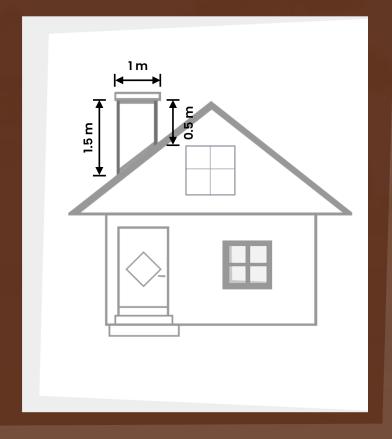
Area of a Trapezium



Area =
$$\frac{1}{2} \times (a+b) \times h$$



Area of the front of the chimney:





The lengths of parallel sides of a trapezium are 7 cm and 10 cm, and the distance between them is 8 cm. Find its area.





If the area of a trapezium is given as 48 cm² and the sum of the lengths of its parallel sides is 12 cm, then what will be the distance between the parallel sides?



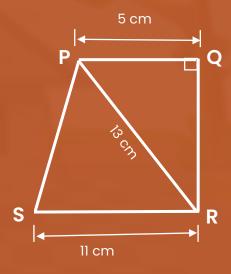


If the area of a trapezium is given as 48 cm² and the sum of the lengths of its parallel sides is 12 cm, then what will be the distance between the parallel sides?





Calculate the area of the trapezium PQRS shown in the figure below.



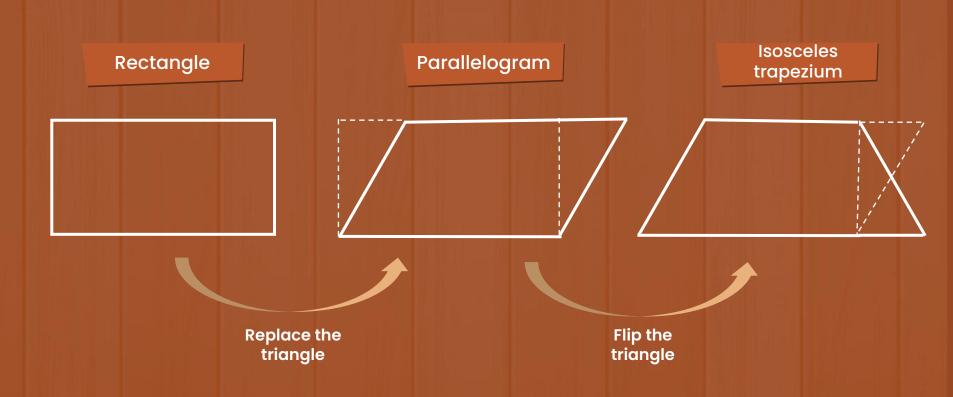








Rectangle to Isosceles Trapezium





Area of an Isosceles Trapezium

Grade:	— 08 KL
JI GGE.	UU KL

Chapter: Area of Quadrilaterals

BTLA: Area of Trapezium

Timings: 00:05:59 - 00:08:14

Start: Let's say we have an isosceles trapezium....

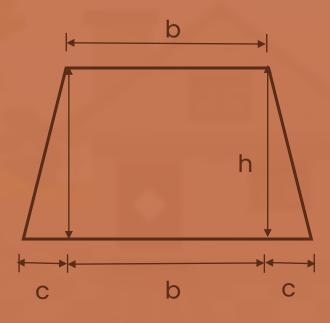
End: ...moving a triangle from the trapezium.

Duration: 00:02:15

Link ———— -



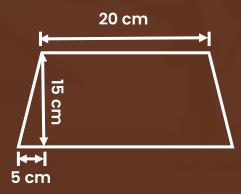
Area of an Isosceles Trapezium



Area =
$$=\frac{1}{2} \times (b+c+b+c) \times h = (b+c) \times h$$

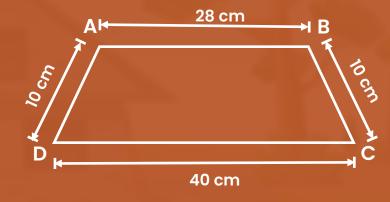


Area of the nameplate:





Evaluate the area of the given trapezium ABCD in which AB || CD.







The lengths of parallel sides of an isosceles trapezium are 10 cm and 4 cm, respectively. If the area is 28 cm², what is the length of the non-parallel side?





The lengths of parallel sides of an isosceles trapezium are 10 cm and 4 cm, respectively. If the area is 28 cm², what is the length of the non-parallel side?

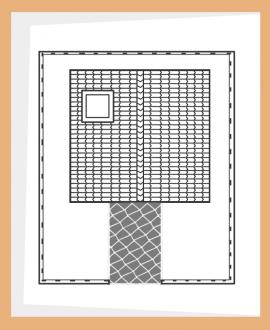




The perimeter of a trapezium is 56 cm. Find the area of the trapezium if the lengths of the parallel sides are in the ratio of 1:2, and the length of each non-parallel side is 13 cm.

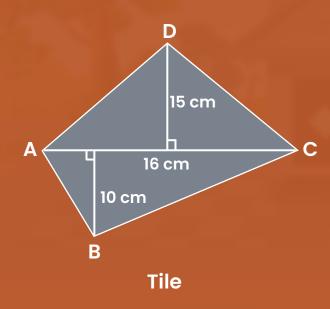


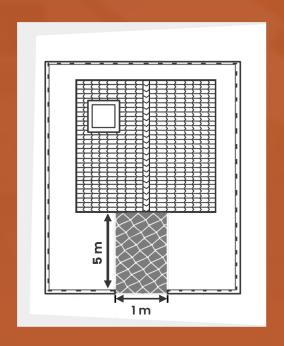






Alex wants to paint the quadrilateral-shaped tiles as shown in the sketch. Find the number of tiles Alex has to paint. (If required, he can cut the tiles into smaller pieces to fill up the corners.)







Area of General Quadrilateral

Grade: — 08 KL

Chapter: Area of Quadrilaterals

BTLA: Area of quadrilateral

Timings: 00:00:07 - 00:01:54

Start: Let's say we've a generic...

End:So that will be able to calculate the area

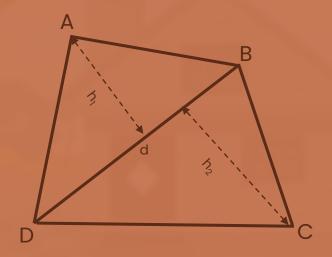
that's it.

Duration: 00:01:47

Link ———— -



Area of a General Quadrilateral



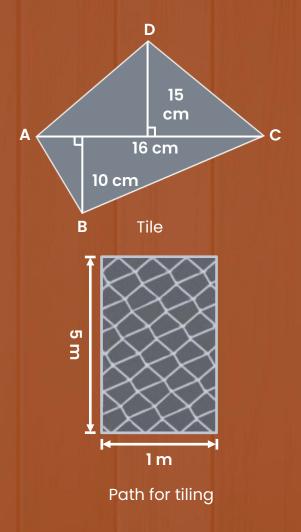
Area =



Area of the tile:

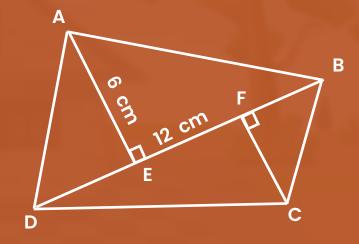
Area of the path:

Number of tiles required:





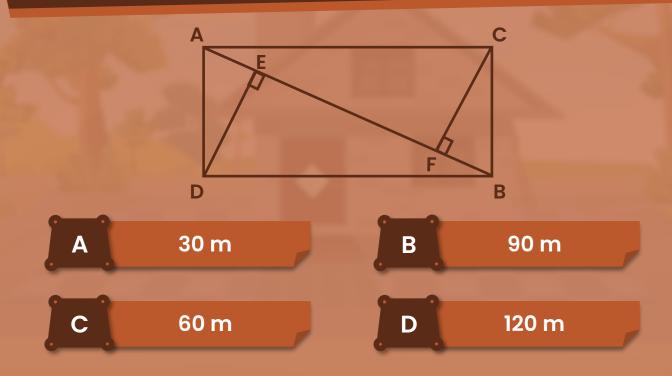
In a quadrilateral ABCD, the length of the diagonal BD = 12 cm and the length of AE, the line perpendicular to BD, is 6 cm. If the area of the quadrilateral is 60 cm², find the length of the perpendicular CF.





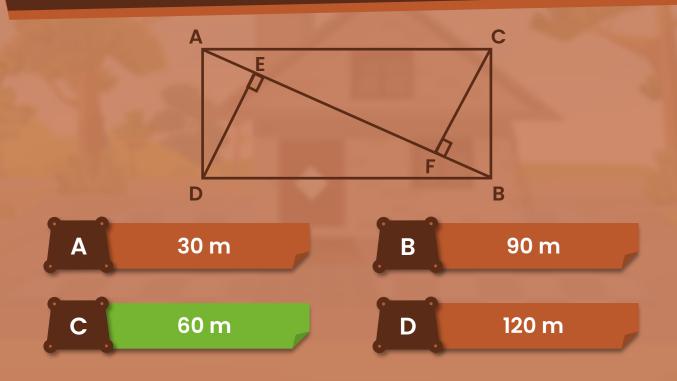


The area of a quadrilateral ADBC is 1500 m². Calculate the length of the diagonal AB if the lengths of perpendiculars DE and CF are 25 cm each.

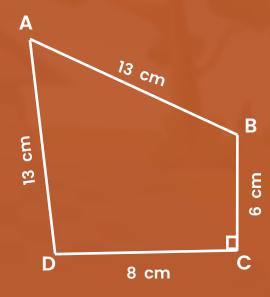




The area of a quadrilateral ADBC is 1500 m². Calculate the length of the diagonal AB if the lengths of perpendiculars DE and CF are 25 cm each.

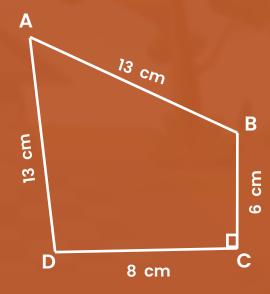








Diagonal BD:

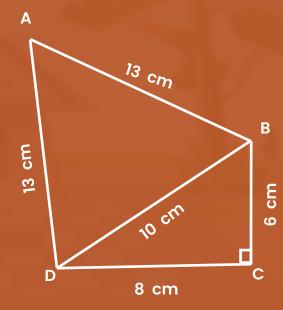




Diagonal BD:

 \triangle BCD is a right-angled triangle. BD = 10 cm

Perpendicular AE:





Diagonal BD:

 \triangle BCD is a right-angled triangle.

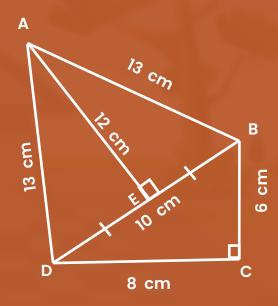
BD = 10 cm

Perpendicular AE:

 \triangle ABD is an isosceles triangle.

AE = 12 cm

Area of quadrilateral ABCD:





Doubt Board



Summary

