

Area of a trapezium

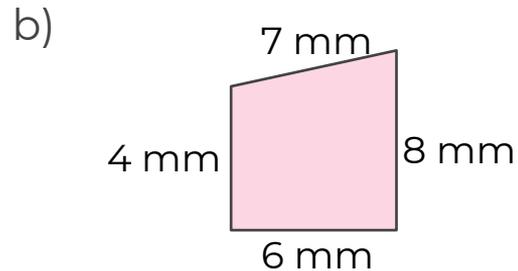
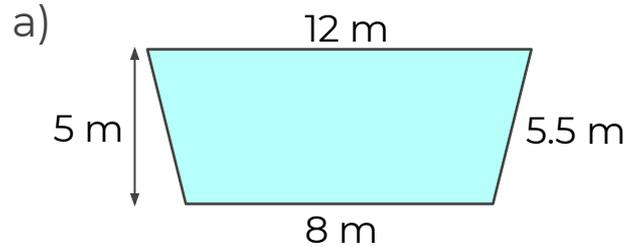
Maths

Mr Chan

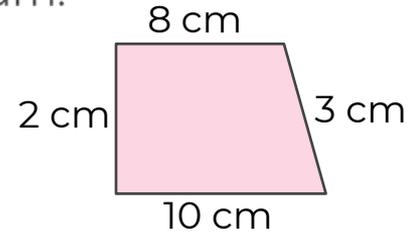


Area of a trapezium

1. Calculate the area of the trapezia.



2. Mo is working out the area of the trapezium.



Here is his working out

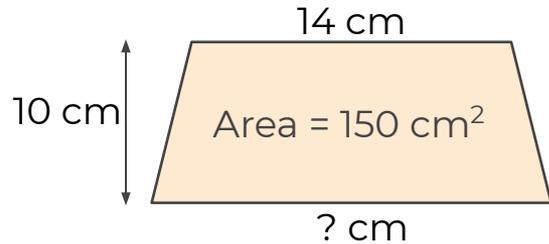
$$\frac{1}{2} \times (8 \times 10) \times 3 = 120 \text{ cm}^2$$

What two mistakes has he made?



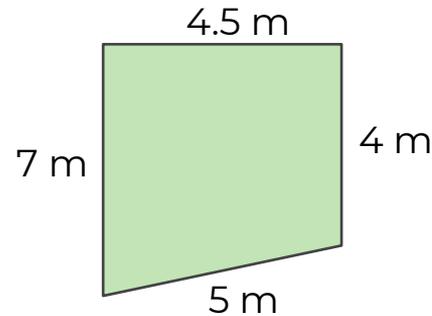
Area of a trapezium

3. Calculate the missing length.



4. An isosceles trapezium has parallel sides of length 6 mm and 9 mm. The sloped sides measure 8 mm. The area of the trapezium is 22.5 mm². Work out the perpendicular height.

5. Grass seed costs £3.50 per square meter. Harry wants to seed his garden. He has £85 to spend. Use the diagram to calculate if Harry has enough money to seed his garden.

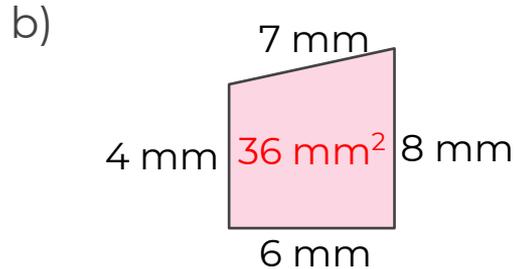
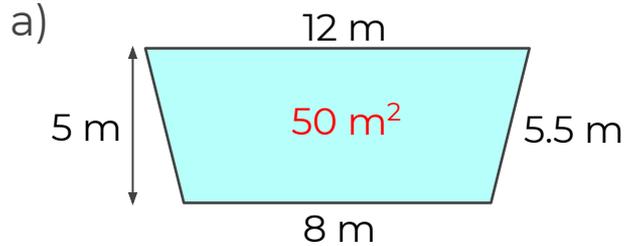


Answers

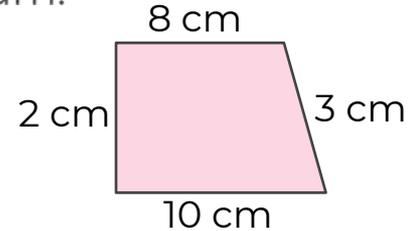


Area of a trapezium

1. Calculate the area of the trapezia.



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Here is his working out

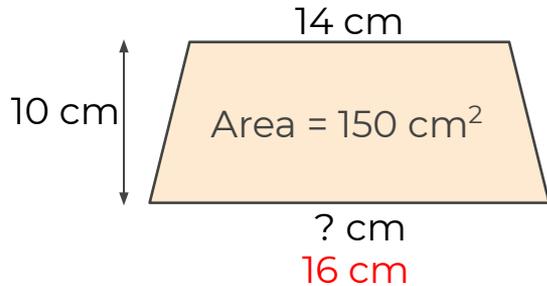
$$\frac{1}{2} \times (8 \times 10) \times 3 = 120 \text{ cm}^2$$

What two mistakes has he made?
Multiplied the parallel sides and not multiplied by the perpendicular height of 2 cm.



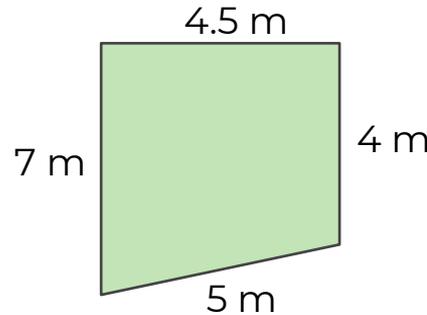
Area of a trapezium

3. Calculate the missing length.



4. An isosceles trapezium has parallel sides of length 6 mm and 9 mm. The sloped sides measure 8 mm. The area of the trapezium is 22.5 mm². Work out the perpendicular height. **3 mm**

5. Grass seed costs £3.50 per square meter. Harry wants to seed his garden. He has £85 to spend. Use the diagram to calculate if Harry has enough money to seed his garden.



Area = 24.75 m²
Cost = £86.63
No he does not have enough.

