

# 5

## Area of Trapeziums



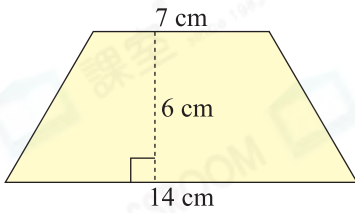
Date: \_\_\_\_\_

Mark: \_\_\_\_\_



Find the area of the following trapeziums.

1.

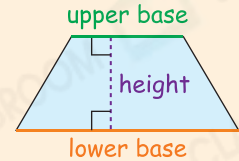


\_\_\_\_\_ cm<sup>2</sup>

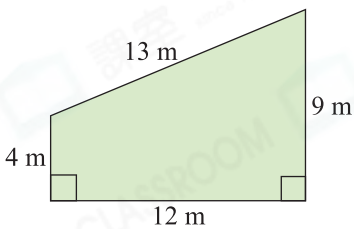


### Reminder

Area of trapezium  
= (upper base + lower base)  
× height ÷ 2

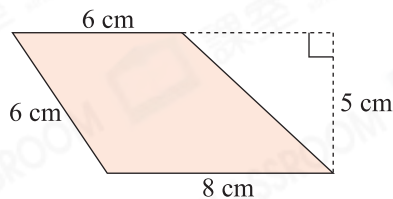


2.



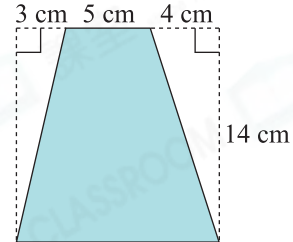
\_\_\_\_\_ m<sup>2</sup>

3.



\_\_\_\_\_ cm<sup>2</sup>

4.



\_\_\_\_\_ cm<sup>2</sup>



Write expressions to solve the following problems.

5. A trapezium has an upper base of 28 cm, a lower base of 40 cm and a height of 50 cm. Find its area.



Its area is: \_\_\_\_\_

6. The sum of a trapezium's upper and lower bases is 100 cm. If its height is 65 cm, what is its area?



Its area is: \_\_\_\_\_

7. The lower base of a trapezium card is 10 cm. That is 5 times of its upper base. If its height is 20 cm longer than its lower base, what is its area?



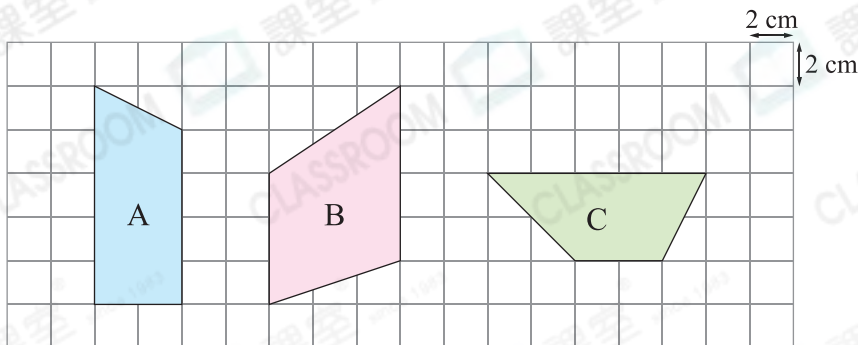
Its area is: \_\_\_\_\_

8. Both the upper base and the height of a trapezium park are 13 m. The lower base is 3 times of the upper base. What is the area of the park?



The area of the park is: \_\_\_\_\_

9.



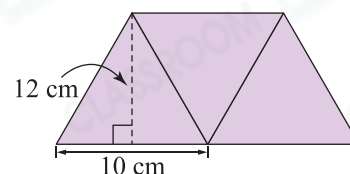
In the above diagram, ☆ A / B / C ( ☆ circle the answer) has the largest area. Its area is \_\_\_\_\_  $\text{cm}^2$ .

10. The area of a trapezium is  $250 \text{ m}^2$ . The upper base and lower base of this trapezium are 16 m and 9 m respectively. What is its height?

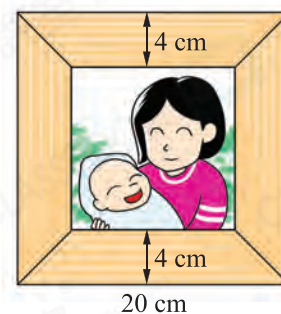
- A. 10 m                       B. 15 m                       C. 20 m                       D. 25 m

11. The trapezium on the right is formed by 3 identical isosceles triangles. What is its area?

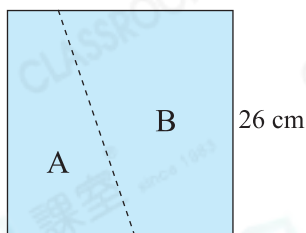
Answer: \_\_\_\_\_  $\text{cm}^2$



12. The square photo frame on the right is composed of 4 identical wooden trapezium boards. What is the area of a wooden trapezium board? (Show your working)



13.



Trapeziums A and B are obtained by cutting the square on the left along the dotted line. The sum of the upper base and lower base of trapezium A is 23 cm.

- (a) The area of trapezium A is \_\_\_\_\_  $\text{cm}^2$ .  
 (b) The area of trapezium B is \_\_\_\_\_  $\text{cm}^2$ .

14. The figure on the right is composed of a trapezium and 3 squares. What is the area of the coloured part?

Advanced

Answer: \_\_\_\_\_  $\text{cm}^2$

