

3

Area of Parallelograms



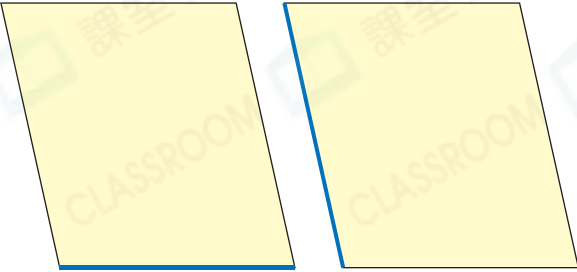
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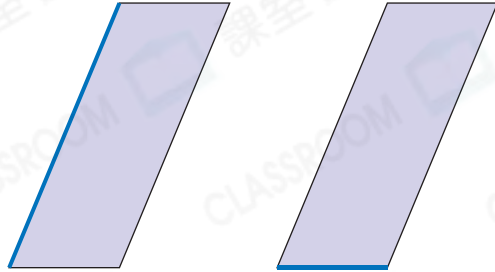


Consider the blue sides as bases for each of the following parallelograms and draw their corresponding heights.

1.

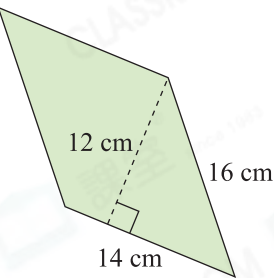


2.



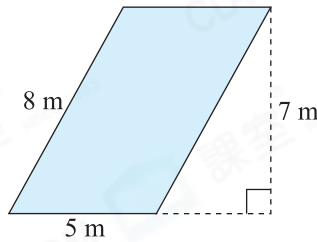
Find the area of the following parallelograms.

3.



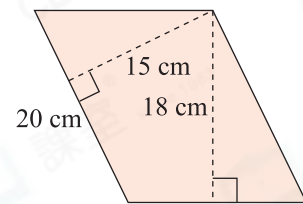
cm^2

4.



m^2

5.



cm^2



Write expressions to solve the following problems.

6. Uncle Li has 4 plots of identical parallelogram farmland. The base and height of each farmland are 5 m and 12 m respectively. What is the total area of his farmland?



The total area of his farmland is: _____

7. The area of a parallelogram is 16 cm^2 . What is its base if its height is 8 cm?



Its base is: _____

8. The base of a parallelogram poster is 48 cm. The height of it is 24 cm longer than the base. What is the area of the poster?



The area of the poster is: _____

9. Which of the following about the formula of area of parallelogram is correct?

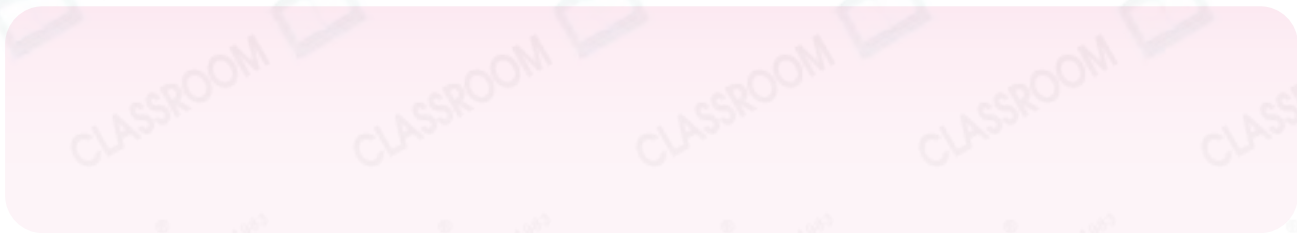
A. $\text{Area} \times 2 = \text{Base} \times \text{Height}$

B. $\text{Area} \div 2 = \text{Base} \times \text{Height}$

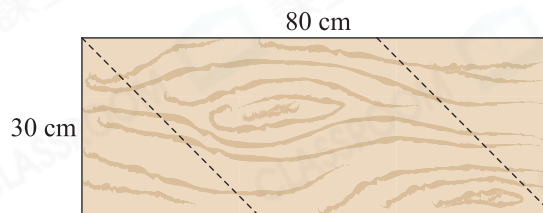
C. $\text{Area} \div \text{Base} = \text{Height} \times 2$

D. $\text{Area} = \text{Base} \times \text{Height}$

10. A piece of grassland in the shape of parallelogram has a base of 8 m and height of 20 m. If the weeding fee is \$20 per m^2 , what is the total weeding fee for weeding this grassland? (Show your working)

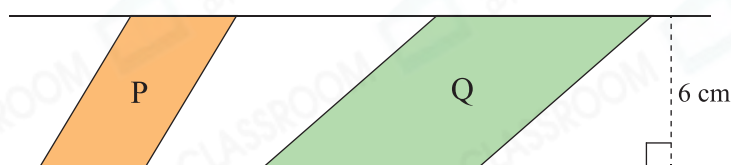


11. After cutting out two isosceles right-angled triangles of the same size from the rectangle wooden board on the right, what is the area of the remaining wooden board?



Answer: _____ cm^2

12.



In the above diagram, the area of Q is 48 cm^2 . The base of P is half of that of Q. What is the area of P?

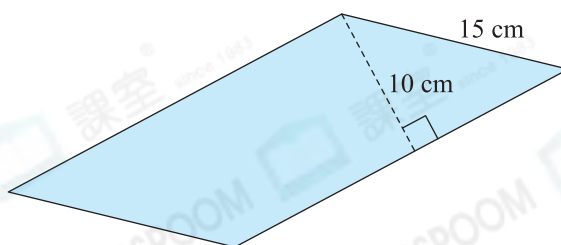
A. 12 cm^2

B. 24 cm^2

C. 96 cm^2

D. 144 cm^2

Advanced 13. The figure below is a parallelogram. Its perimeter is 78 cm. What are the two groups of bases and corresponding heights of this parallelogram?



Answer 1: When the base is _____ cm, the height is _____ cm.

Answer 2: When the base is _____ cm, the height is _____ cm.