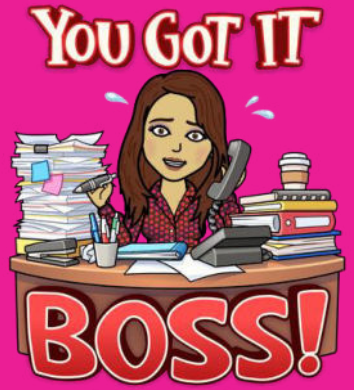
# Area of Parallelograms

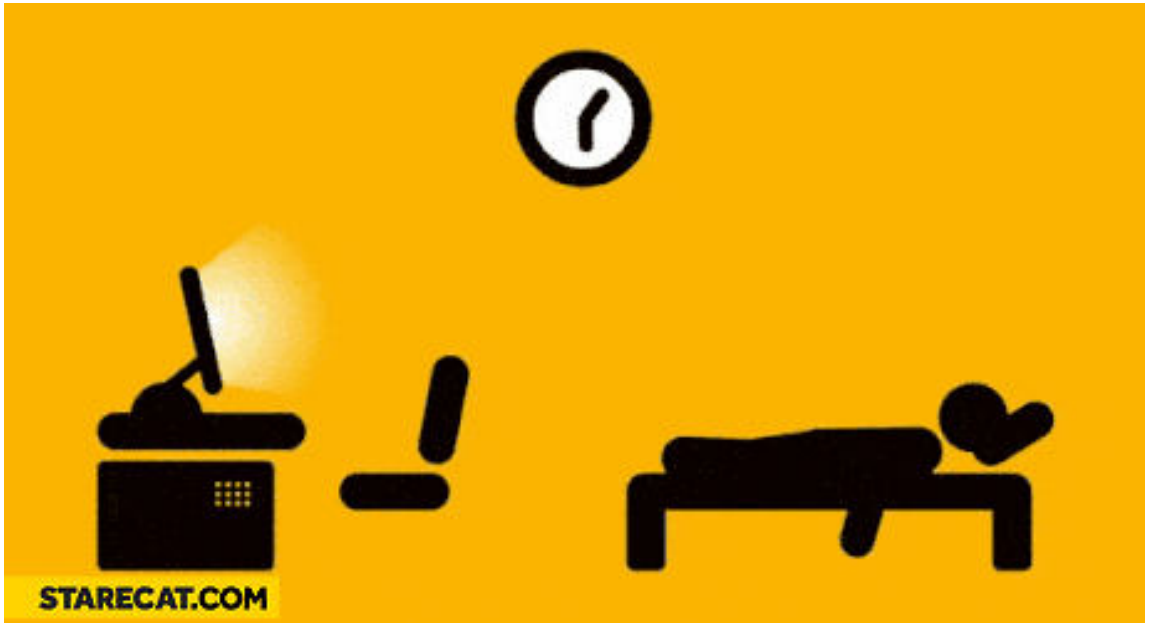
Lesson 6

# Let's practice finding the area of parallelograms.



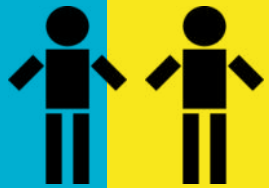
# Today's Goals

- ❏ I can use the area formula to find the area of any parallelogram.



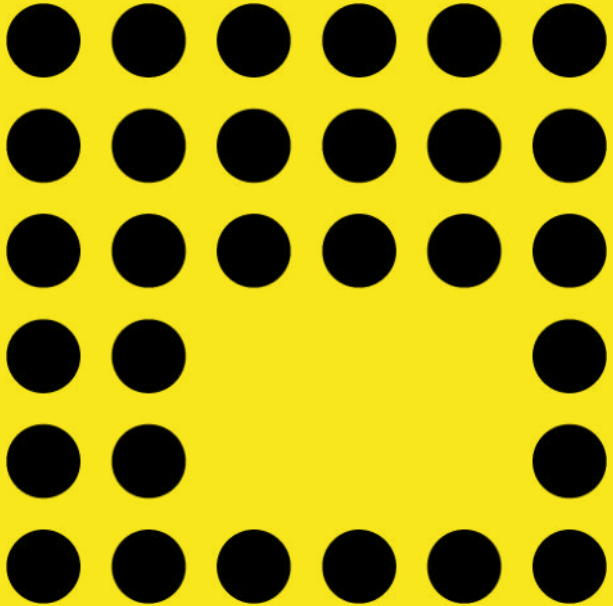
# Missing Dots

## Warm Up 6.1



How many dots are in the image?

How do you see them?

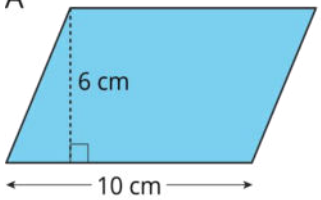


# More Areas of Parallelograms

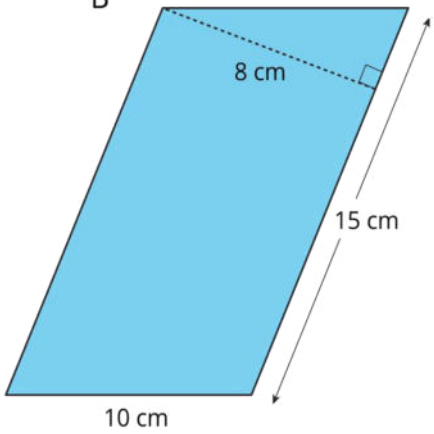
Activity 6.2

# Find the area of each parallelogram. Explain or show your reasoning.

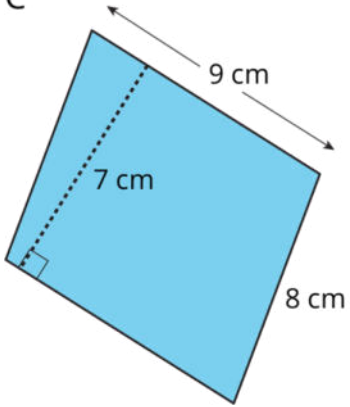
A



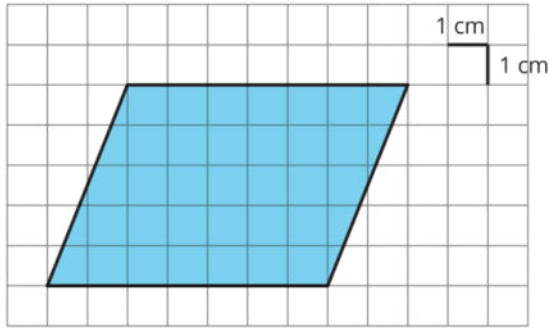

B



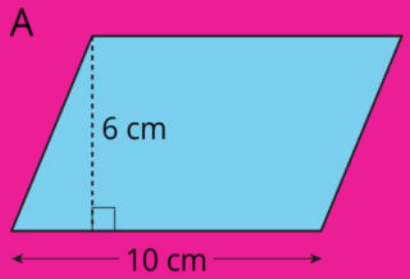

C

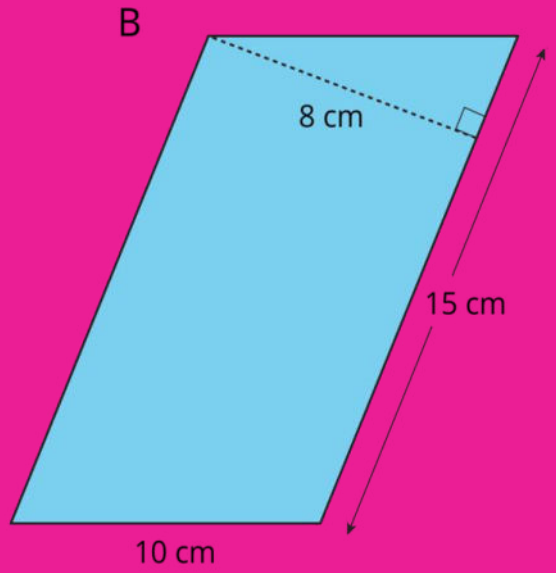



D



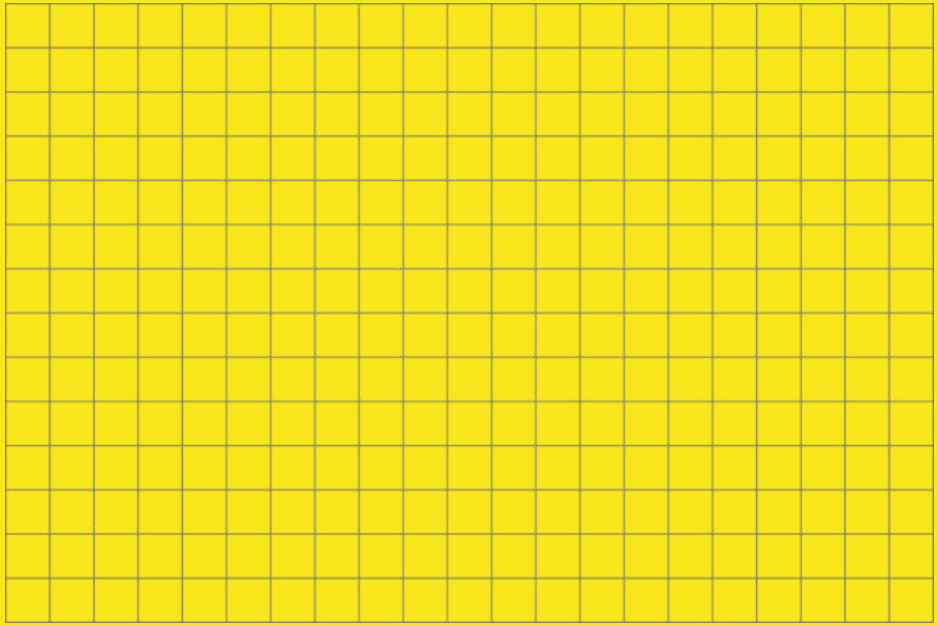
In Parallelogram B, what is the corresponding height of the base that is 10 cm long? Explain or show your reasoning.



Two different parallelograms P and Q both have an area of 20 square units. Neither of the parallelograms are rectangles.

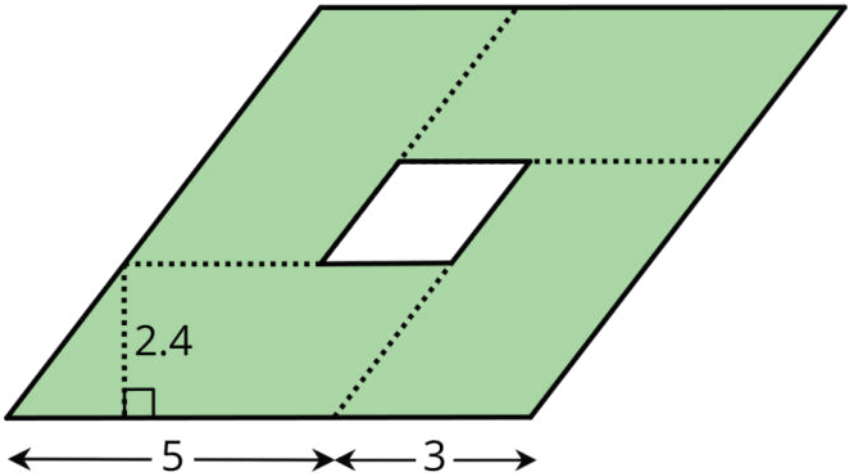
On the grid draw two parallelograms that could be P and Q.



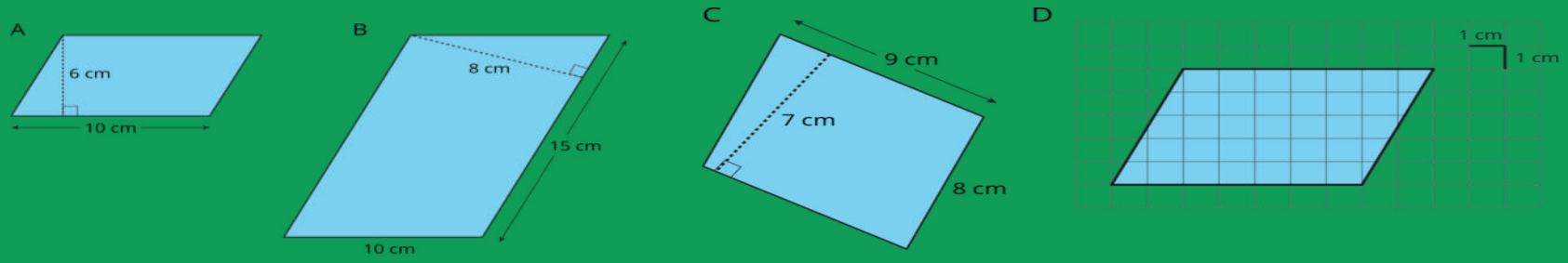
## Are you ready for more?

Here is a parallelogram composed of smaller parallelograms. The shaded region is composed of four identical parallelograms. All lengths are in inches.

What is the area of the unshaded parallelogram in the middle? Explain or show your reasoning.



**When multiple measurements were shown, how did you know which of the measurements would help you find area?**




**Which pieces of information in parallelograms B and C were not needed? Why not?**

# Lesson Synthesis

**When a parallelogram is on a grid, how do we know which side to choose for a base? Can we use any side?”**

# Off a grid, how do we know which measurements can help us find the area of a parallelogram?

**Do parallelograms that have the same area always look the same?**

**Can you show an example?**

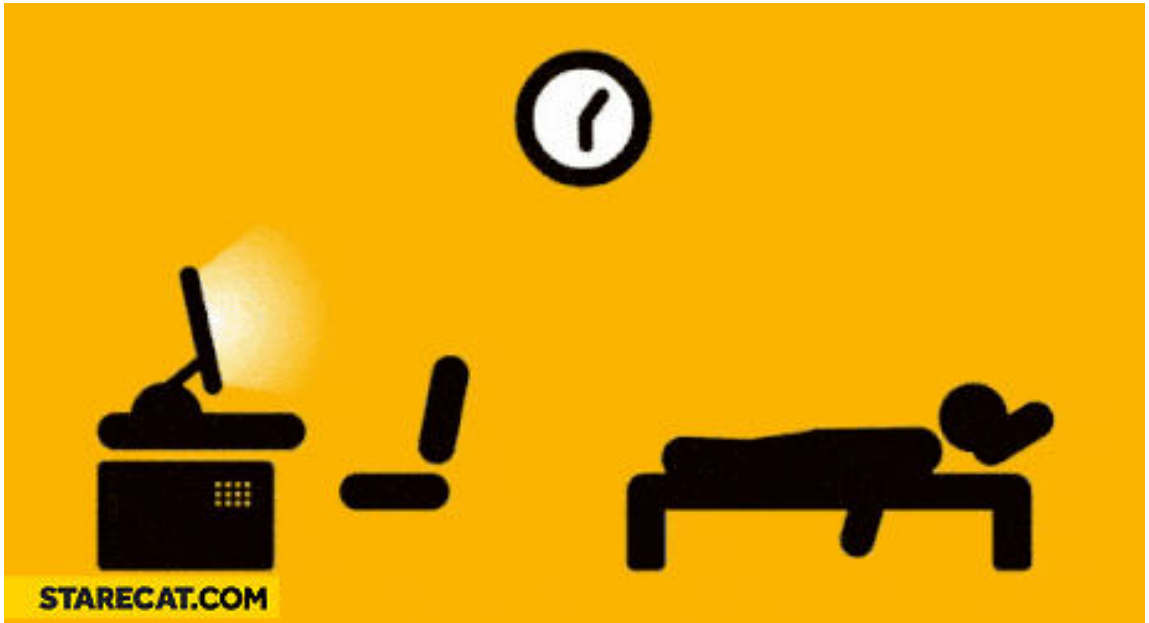
**Do parallelograms that have the same base and height always look the same?**

**Can you show an example?**

# How can we draw two different parallelograms with the same area?

# Today's Goals

- ❏ I can use the area formula to find the area of any parallelogram.



# One More Parallelogram

Cool Down