

Area of Parallelograms



In the previous tutorial, I was preparing to paint some rectangular wall spaces in my home. I'll review some of the calculations that were part of my preparation.

Area is a two-dimensional quantity.

- How would I explain the dimensions required to calculate the area of this wall space?
- How will I use the dimensions of the wall space to calculate the area of the wall?



- Why is an area solution always explained as units squared or square units?



Let's imagine I painted my rectangular wall space as shown below. Then, I adjust the rectangular painted space... to form the shape of a parallelogram.



- How could I prove that the area of the parallelogram space is equal to the area of the previous rectangular space?
- How would I compare calculating the area of a rectangle to a parallelogram?

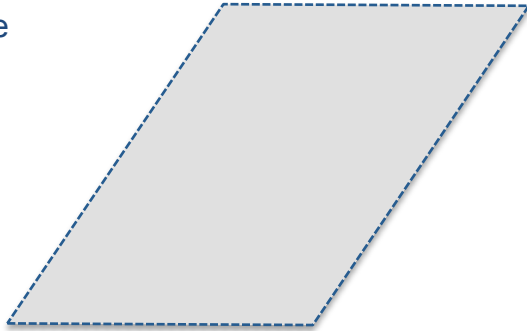
A rectangle and a parallelogram each have a height dimension.



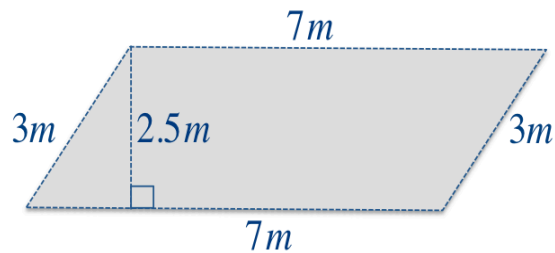
- How would I explain my thinking when identifying the height dimension for each shape?



- How would I choose to label the base and height of this parallelogram?



- How would I explain why it's possible to calculate the perimeter of the parallelogram shown below?



- How would I explain why it's also possible to calculate the area of this parallelogram?
- How would I explain and demonstrate calculating the area of the parallelogram?

Area of Parallelograms - Skills Checklist



- I can explain how I identify the dimensions of a parallelogram
- I can compare how the height of a parallelogram is different/same as the height of a rectangle
- I can explain how the dimensions of a parallelogram are used to calculate the area of a parallelogram
- I can demonstrate how I calculate the area of a parallelogram
- I can explain why area is measured using square units

Area of Parallelograms - Worksheet



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