

### Lesson Summary

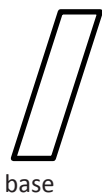
The formula to calculate the area of a parallelogram is  $A = bh$ , where  $b$  represents the base and  $h$  represents the height of the parallelogram.

The height of a parallelogram is the line segment perpendicular to the base. The height is usually drawn from a vertex that is opposite the base.

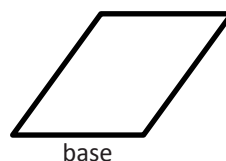
### Problem Set

Draw and label the height of each parallelogram.

1.

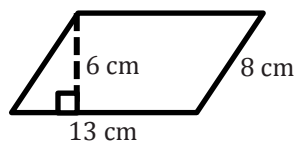


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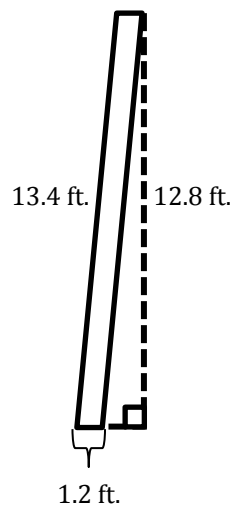


Calculate the area of each parallelogram. The figures are not drawn to scale.

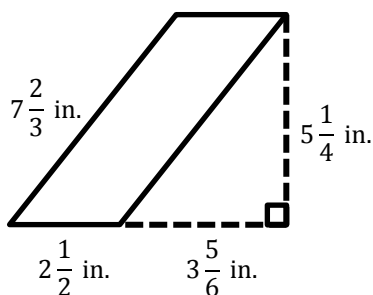
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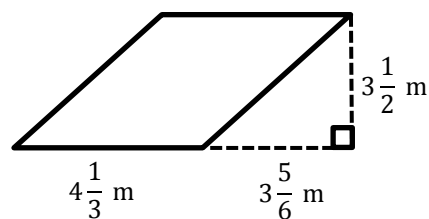
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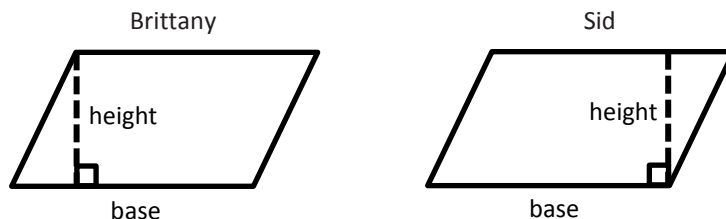
5.



6.

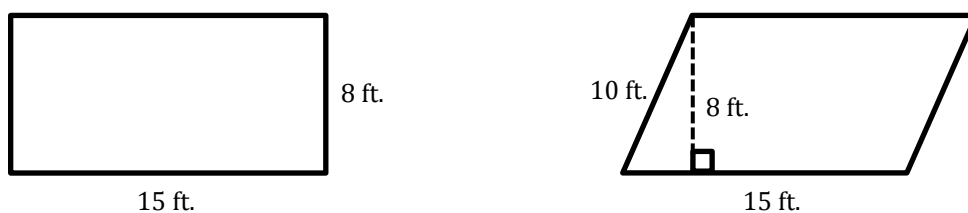


7. Brittany and Sid were both asked to draw the height of a parallelogram. Their answers are below.



Are both Brittany and Sid correct? If not, who is correct? Explain your answer.

8. Do the rectangle and parallelogram below have the same area? Explain why or why not.



9. A parallelogram has an area of  $20.3 \text{ cm}^2$  and a base of  $2.5 \text{ cm}$ . Write an equation that relates the area to the base and height,  $h$ . Solve the equation to determine the height of the parallelogram.