

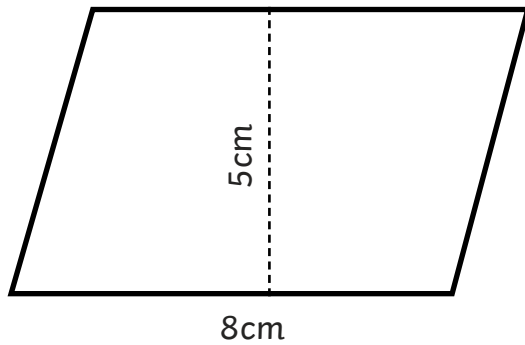
# Area of Parallelograms

I can find the area of parallelograms.

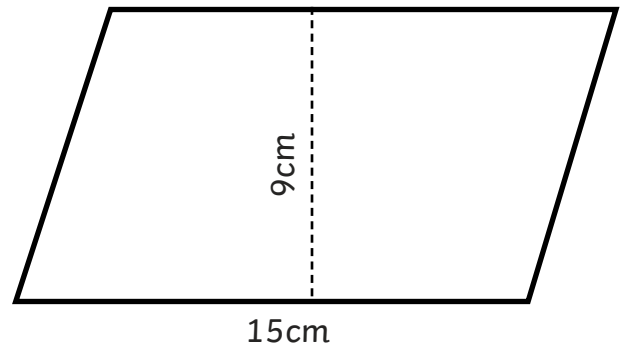


Find the area of these parallelograms:

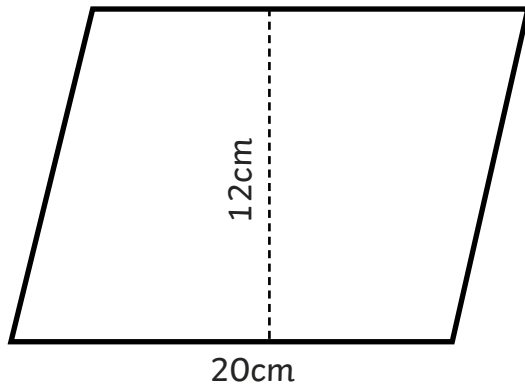
1.



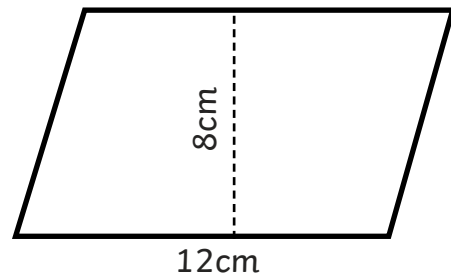
2.



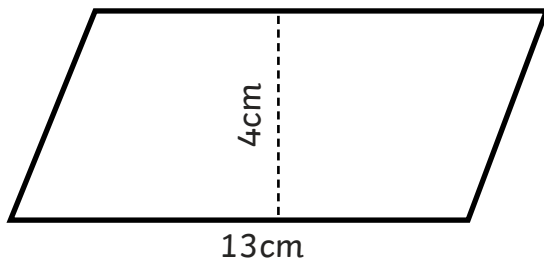
3.



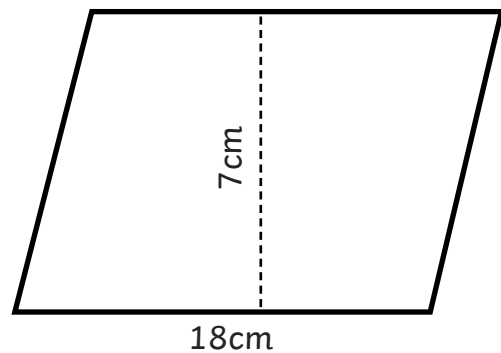
4.

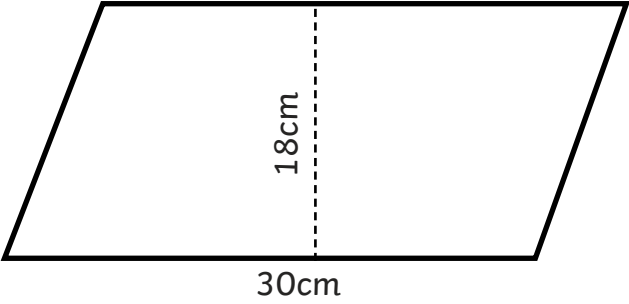
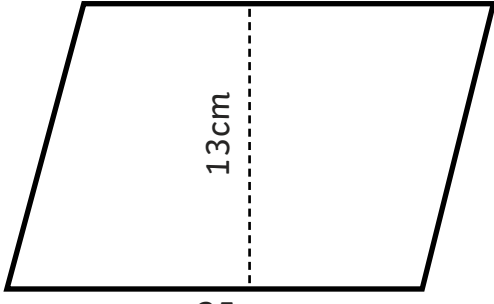


5.



6.



<p>7.</p>  <p style="text-align: center;">_____</p>	<p>8.</p>  <p style="text-align: center;">_____</p>
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9. Explain why the area of a parallelogram is the length of the base multiplied by the height. Draw a diagram to help your explanation.

10. Lena and Trishna have each drawn a parallelogram. Lena's parallelogram has a base of 18cm and height 9cm. Trishna's parallelogram has a base of 12cm and height 11cm.

My parallelogram has the greatest area. It is more than  $25\text{cm}^2$  bigger than Trishna's parallelogram.



Is Lena correct?

# Area of Parallelograms Answers

Question	Answer
1.	$40\text{cm}^2$
2.	$135\text{cm}^2$
3.	$240\text{cm}^2$
4.	$96\text{cm}^2$
5.	$52\text{cm}^2$
6.	$126\text{cm}^2$
7.	$540\text{cm}^2$
8.	$325\text{cm}^2$
9.	Explain why the area of a parallelogram is the length of the base multiplied by the height. Draw a diagram to help your explanation.
	<i>Explanation and drawings show an understanding that if you cut off a right-angled triangle from one side of the parallelogram and place it on the other side, you would have a rectangle and the area would be length <math>\times</math> height.</i>
10.	Lena and Trishna have each drawn a parallelogram. Lena's parallelogram has a base of 18cm and height 9cm. Trishna's parallelogram has a base of 12cm and height 11cm. Is Lena correct?
	<i>Lena's parallelogram has an area of <math>162\text{cm}^2</math>. Trishna's parallelogram has an area of <math>132\text{cm}^2</math>. The difference between the areas of the two parallelograms is <math>30\text{cm}^2</math>. This is greater than <math>25\text{cm}^2</math>. Lena is correct.</i>