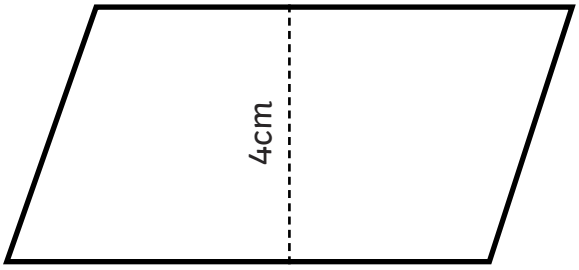
Area of Parallelograms

I can find the area of parallelograms.

Find the area of these parallelograms:

1.



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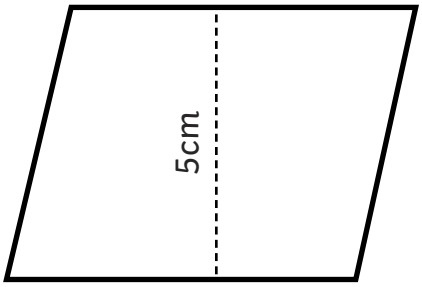

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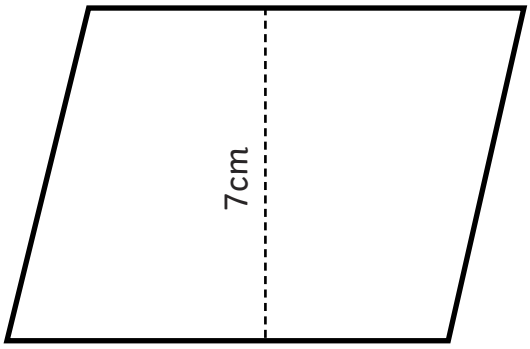

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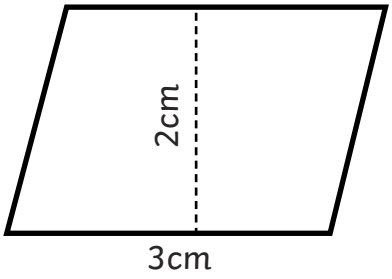

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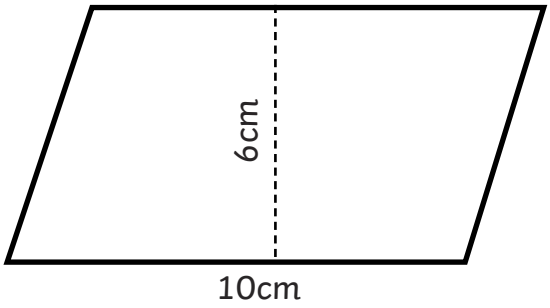

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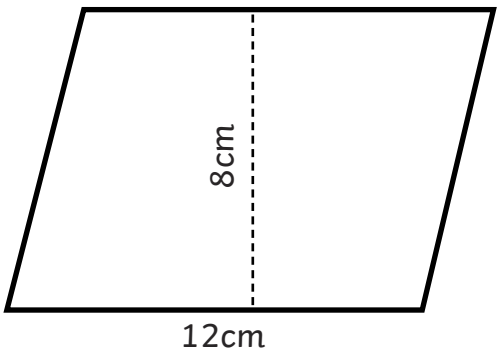

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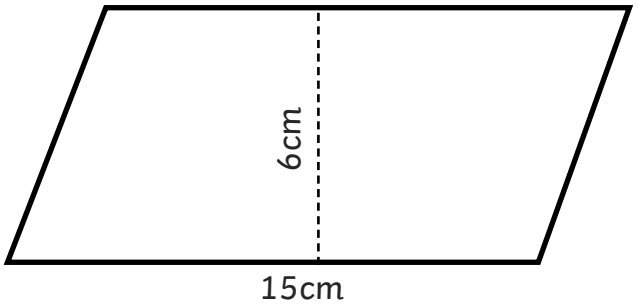

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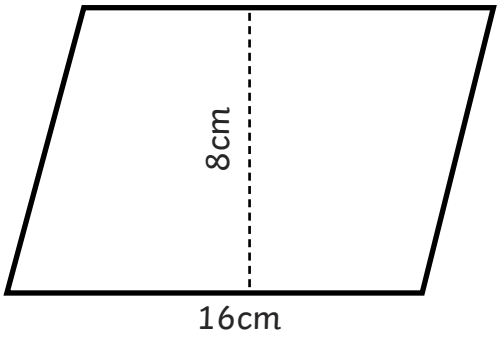
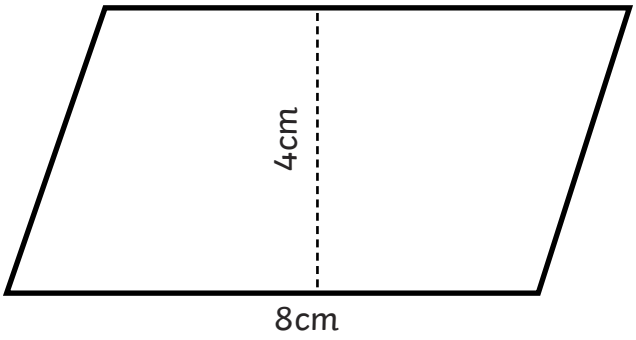


9. Explain why the area of a parallelogram is the length of the base multiplied by the height. Draw a diagram to help your explanation.

10. Change one of the measurements of this parallelogram so that it has an area of 40cm^2.



Area of Parallelograms **Answers**

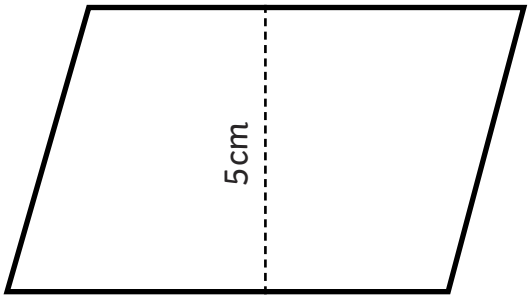
Question	Answer
1.	28cm²
2.	30cm²
3.	63cm²
4.	6cm²
5.	60cm²
6.	96cm²
7.	90cm²
8.	128cm²
9.	Explain why the area of a parallelogram is the length of the base multiplied by the height. Draw a diagram to help your explanation.
	Explanation and drawings show an understanding that if you cut off a right-angled 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 × height.
10.	Change the one of the measurements of this parallelogram so that it has an area of 40cm².
	The new shape could be 4cm × 10cm or 8cm × 5cm.

Area of Parallelograms

I can find the area of parallelograms.

Find the area of these parallelograms:

1.



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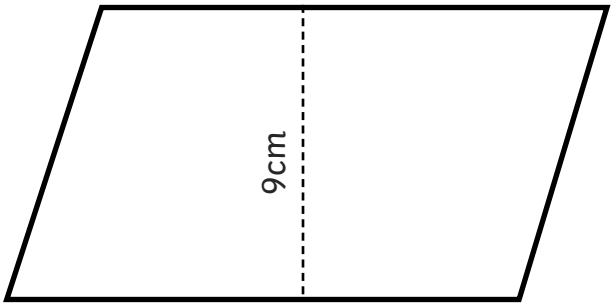

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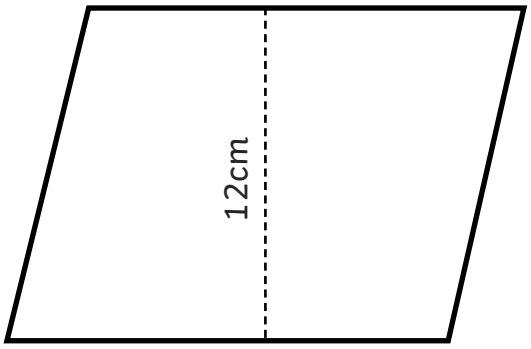

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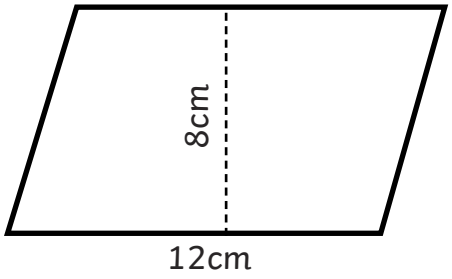

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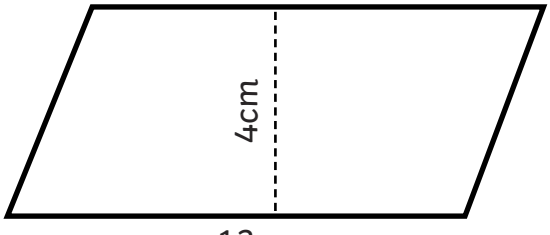

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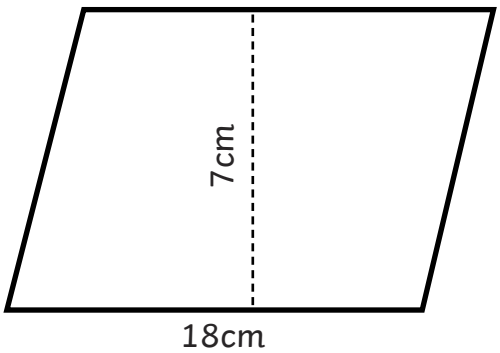

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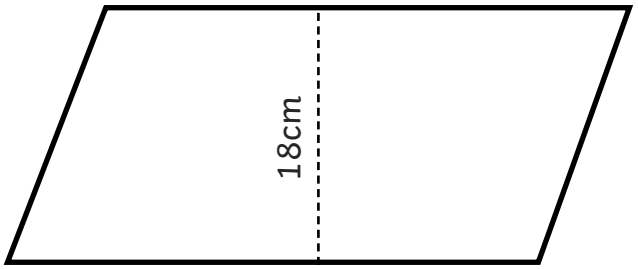

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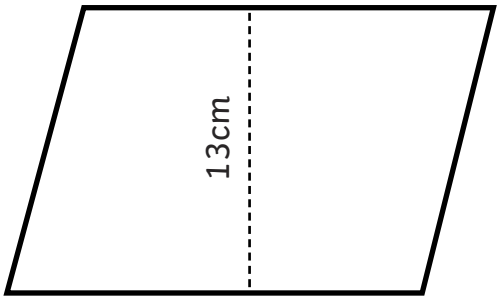
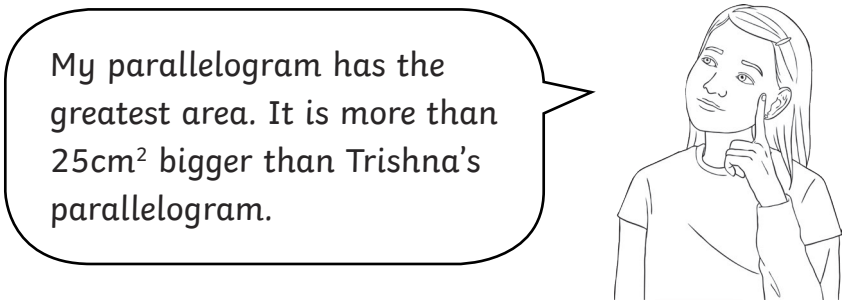


9. Explain why the area of a parallelogram is the length of the base multiplied by the height. Draw a diagram to help your explanation.

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.



Is Lena correct?

Area of Parallelograms **Answers**

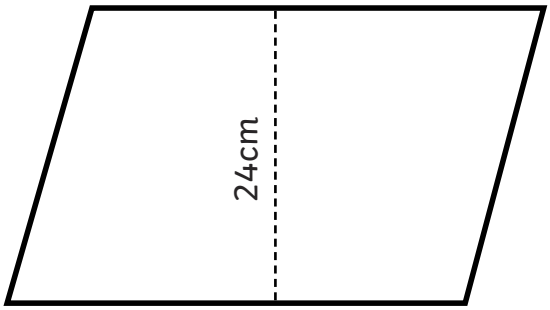
Question	Answer
1.	40cm²
2.	135cm²
3.	240cm²
4.	96cm²
5.	52cm²
6.	126cm²
7.	540cm²
8.	325cm²
9.	Explain why the area of a parallelogram is the length of the base multiplied by the height. Draw a diagram to help your explanation.
	Explanation and drawings show an understanding that if you cut off a right-angled 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 × height.
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?
	Lena's parallelogram has an area of 162cm². Trishna's parallelogram has an area of 132cm². The difference between the areas of the two parallelograms is 30cm². This is greater than 25cm². Lena is correct.

Area of Parallelograms

I can find the area of parallelograms.

Find the area of these parallelograms:

1.



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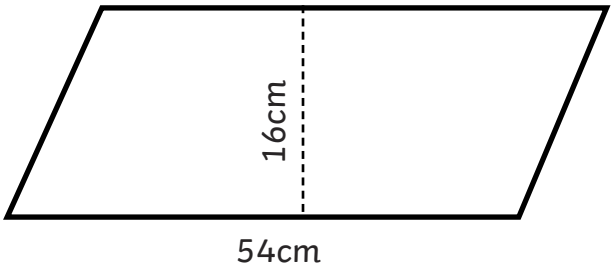

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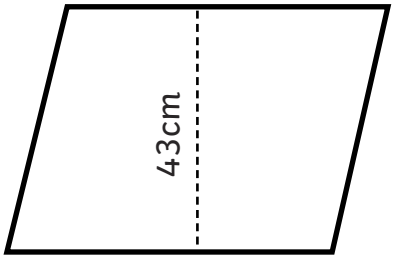

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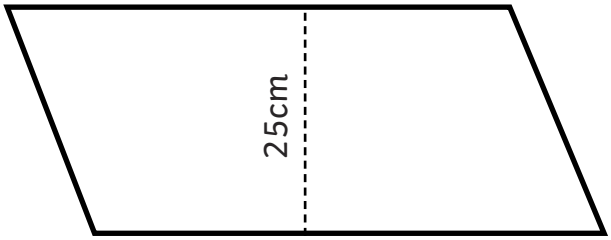

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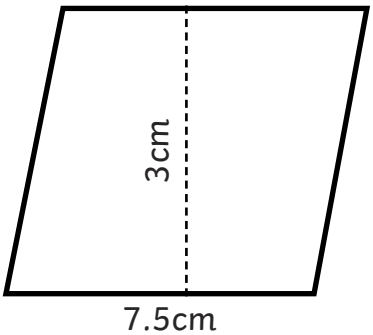

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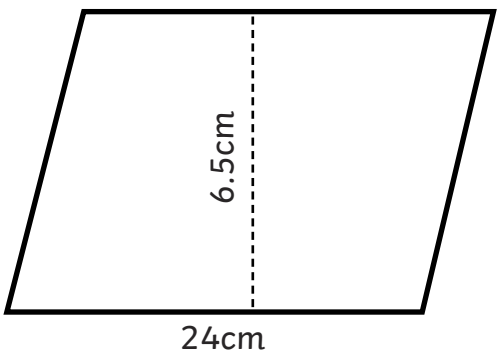

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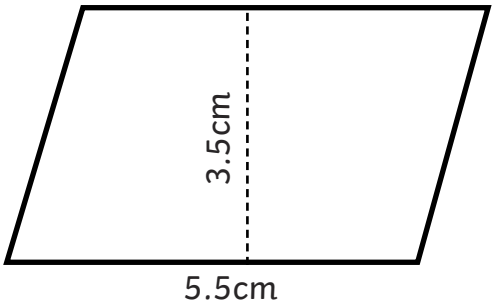

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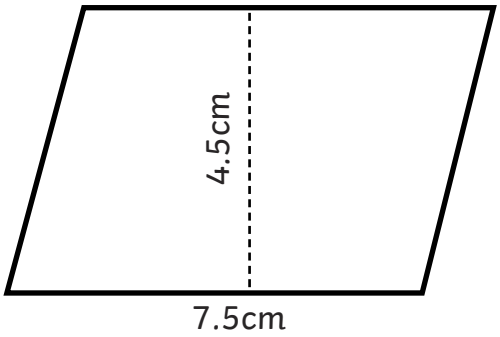

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9. Explain why the area of a parallelogram is the length of the base multiplied by the height. Draw a diagram to help your explanation.

10. Katie says, "I have drawn a parallelogram which has a base of 12cm and height 8cm. If I doubled either the base or the height, the area would be double the area of my first parallelogram." Is Katie correct? Show how you know.

Area of Parallelograms **Answers**

Question	Answer
1.	768cm²
2.	864cm²
3.	2881cm²
4.	1875cm²
5.	22.5cm²
6.	156cm²
7.	19.25cm²
8.	33.75cm²
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.
	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 × height.
10.	Katie says 'I have drawn a parallelogram which has a base of 12cm and height 8cm. If I doubled either the base or the height, the area would be double the area of my first parallelogram.' Is Katie correct? Show how you know.
	Katie is correct. The original parallelogram has an area of 96cm² (12cm × 8cm). If you doubled the base, the area would be 24cm × 8cm = 192 cm². If you doubled the height, the area would be 12cm × 16cm = 192 cm². 192 cm² is double 96cm².