Area of Triangles and Parallelograms Reasoning

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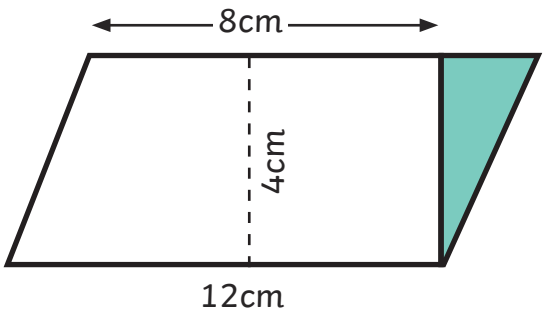
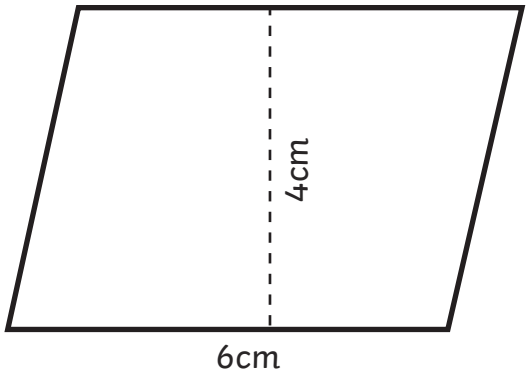
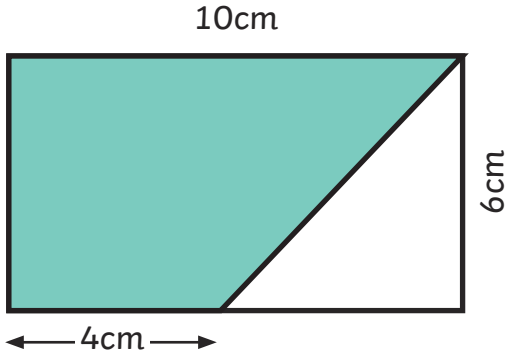
Solve these reasoning questions:

1.	2.	3.
Calculate the area of the parallelogram and the area of the right-angled triangle inside the parallelogram.  	Give the dimensions of a triangle which would have the same area as this parallelogram.  	Calculate the total area of this shape which is shaded. 

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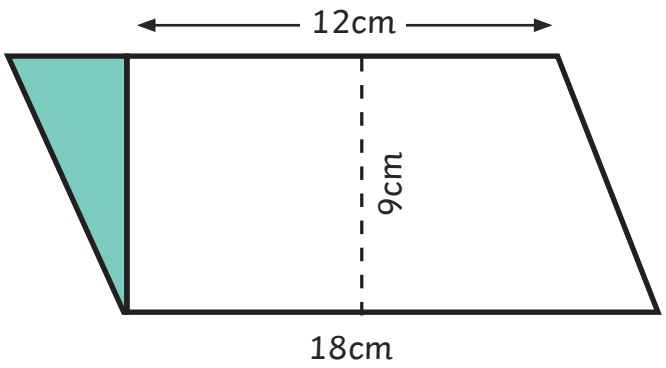
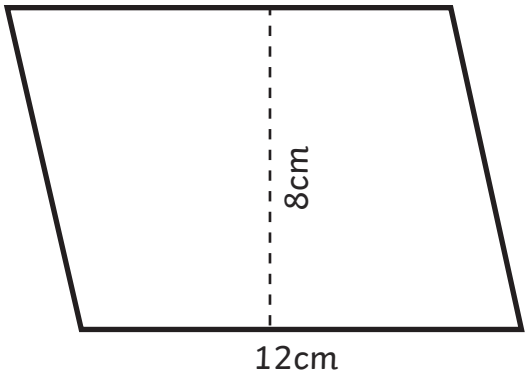
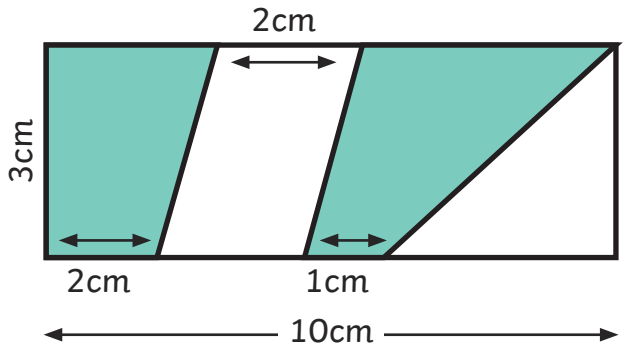
Calculate the area of the parallelogram and the area of the right-angled triangle inside the parallelogram.  	Give the dimensions of a triangle which would have the same area as this parallelogram.  	Calculate the total area of this shape which is shaded. 

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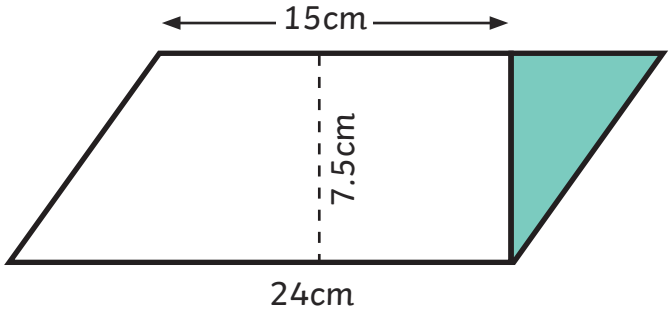
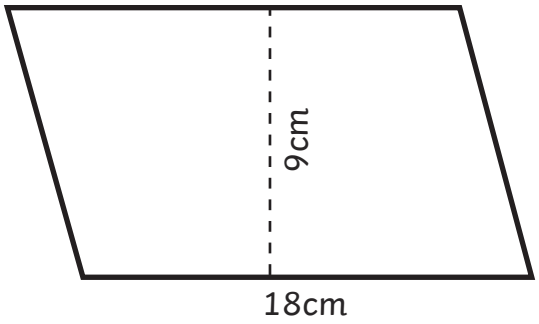
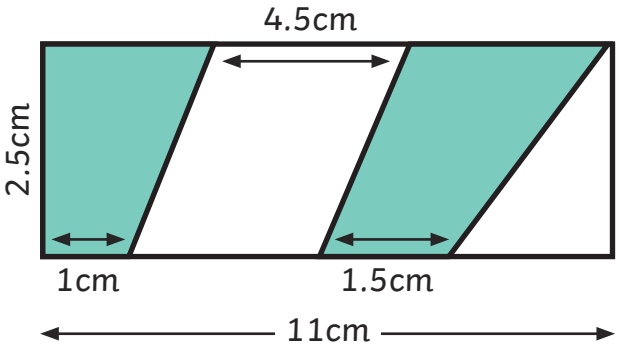
Calculate the area of the parallelogram and the area of the right-angled triangle inside the parallelogram.  	Give the dimensions of a triangle which would have the same area as this parallelogram.  	Calculate the total area of this shape which is shaded. 

Area of Triangles and Parallelograms Reasoning **Answers**

1.	Calculate the area of the parallelogram and the area of the right-angled triangle inside the parallelogram.
Answer	*Parallelogram = 48cm²* *Triangle = 8cm²*
2.	Give the dimensions of a triangle which would have the same area as this parallelogram.
Answer	*The triangle's dimensions need to have the product of 48cm², for example 1cm × 48cm, 2cm × 24cm, 3cm × 16cm, 4cm × 12cm, 6cm × 8cm.*
3.	Calculate the total area of this shape which is shaded.
Answer	*Area of shaded part = 42cm²*

1.	Calculate the area of the parallelogram and the area of the right-angled triangle inside the parallelogram.
Answer	*Parallelogram = 162cm²* *Triangle = 27cm²*
2.	Give the dimensions of a triangle which would have the same area as this parallelogram.
Answer	*The triangle's dimensions need to have a product of 192cm², for example 1cm × 192cm, 2cm × 96cm, 3cm × 64cm, 4cm × 48cm, 6cm × 32cm, 8cm × 24cm, 12cm × 16cm.*
3.	Calculate the total area of this shape which is shaded.
Answer	*Area of shaded part = 16.5cm²*

1.	Calculate the area of the parallelogram and the area of the right-angled triangle inside the parallelogram.
Answer	*Parallelogram = 180cm²* *Triangle = 33.75cm²*
2.	Give the dimensions of a triangle which would have the same area as this parallelogram.
Answer	*The triangle's dimensions need to have a product of 324cm², for example 1cm × 324cm, 2cm × 162cm, 3cm × 108cm, 4cm × 81cm, 6cm × 54cm, 9cm × 36cm, 12cm × 27cm, 18cm × 18cm.*
3.	Calculate the total area of this shape which is shaded.
Answer	*Area of shaded part = 11.25cm²*