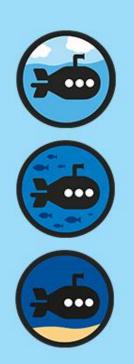
## **Diving into Mastery**

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## Area of a Parallelogram



## Area of a Parallelogram Diving

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Use the formula **base × height** to calculate the area of a parallelogram.

Find the area of What is the missing measurement this parallelogram. in this parallelogram? Area = 120 cm<sup>2</sup> 14cm 8 cm 12cm 15cm 10cm  $12cm \times 14cm = 168cm^2$  $120cm^2 \div 15cm = 8cm$ Area = 168cm<sup>2</sup>

Nille

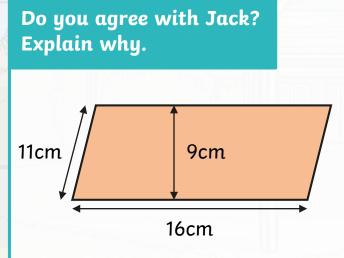
## Area of a Parallelogram

Deeper

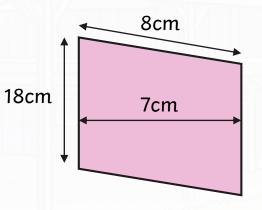


Use the formula **base × height** to calculate the area of a parallelogram.

Jack has calculated that both of these parallelograms have an area of 144cm<sup>2</sup>.



Jack has correctly calculated the area of this parallelogram. 16cm × 9cm = 144cm<sup>2</sup>



However, to calculate the area of 144cm<sup>2</sup> on this parallelogram, Jack has incorrectly multiplied the base by the 8cm side length. He should have used the perpendicular height of 7cm. The correct calculation is: 18cm × 7cm = 126cm<sup>2</sup>

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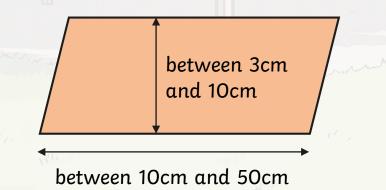
Use the formula **base × height** to calculate the area of a parallelogram.

Deepest

I am thinking of a parallelogram with side lengths that are whole numbers.

Give the dimensions of all the possible parallelograms I could be thinking of.

It has an area of 96cm<sup>2</sup>. Its base measures between 10cm and 50cm. Its height measures between 3cm and 10cm.





```
If the parallelogram has an
area of 96cm<sup>2</sup>, then it could
have the following dimensions:
base = b and height = h
b = 3cm and h = 32cm
b = 4cm and h = 24cm
b = 6cm and h = 16cm
b = 8cm and h = 12cm
```