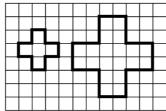
Cross patterns

This task is about rules for growing number patterns.



A cross shape was drawn in different sizes. The first two are shown. The cross with a side length of 1 has an area of 5 cm^2 and the cross with a side length of 2 has an area of 20 cm^2 .

Here is a table for the area of crosses which have different side lengths.

Side length of the cross (in cm)	1	2	3	4	5	10
Area of the cross (in cm ²)	5	20	45	80	125	500

a) Explain in your own words a rule for getting the area of a cross.						

b) Complete this rule below relating the **area** (a) of the cross to the length of the sides (n).

$$a = \int cm^2$$

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