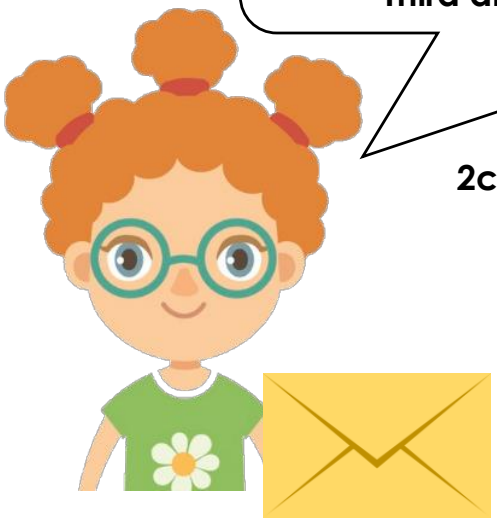
Area of a Triangle 1

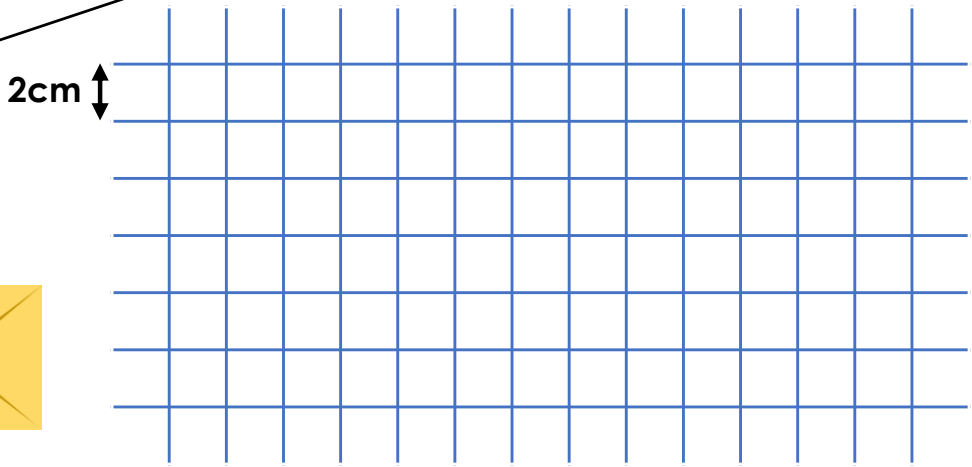
1. Daria has drawn a triangle on squared paper and concealed it in an envelope. She gives the following three clues to her friends to see if they can draw a matching triangle.

First clue: It has an estimated area between 30cm² and 50cm².

Second clue: One of the side lengths is between 2cm and 10cm.

Third and final clue: Each square has an area of 2cm².





Draw triangles that could be a possible match.

DP

2. Dylan has written the length and width of some right-angled triangles. In the first table, there is 1cm difference between the length and width; the second table has a difference of 2cm; the third table has a difference of 3cm.

Table 1

Length	Width	Area
3cm	2cm	
4cm	3cm	
5cm	4cm	
6cm	5cm	
7cm	6cm	

Table 2

Length	Width	Area
4cm	2cm	
6cm	4cm	
8cm	6cm	
10cm	8cm	
12cm	10cm	

Table 3

Length	Width	Area
5cm	2cm	
8cm	5cm	
11cm	8cm	
14cm	11cm	
17cm	14cm	

Draw these triangles onto squared paper and count the squares to find the areas. Do you notice a pattern in the areas? Can you predict the area of the next three triangles in each sequence?

DP

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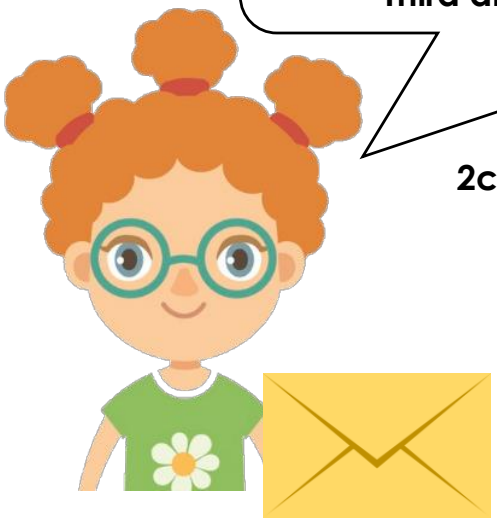
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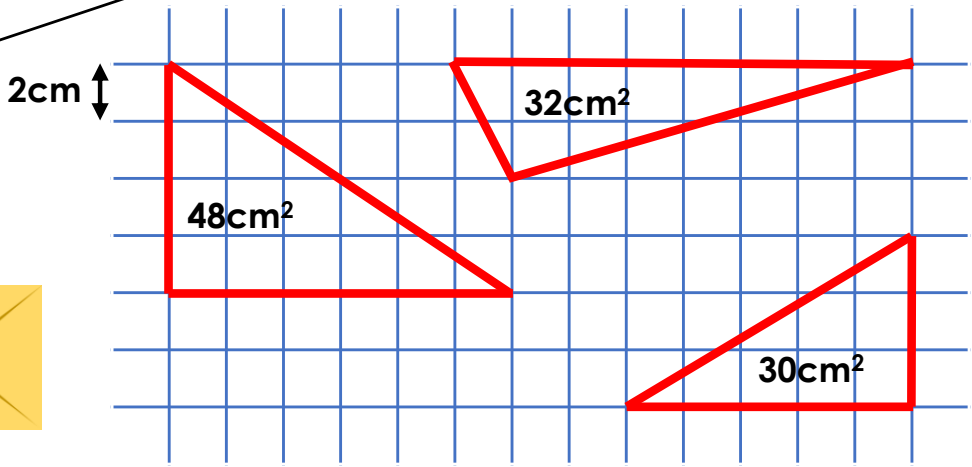
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Draw triangles that could be a possible match.

DP

2. Dylan has written the length and width of some right-angled triangles. In the first table, there is 1cm difference between the length and width; the second table has a difference of 2cm; the third table has a difference of 3cm.

Table 1

Length	Width	Area
3cm	2cm	3cm²
4cm	3cm	6cm²
5cm	4cm	10cm²
6cm	5cm	15cm²
7cm	6cm	21cm²

Table 2

Length	Width	Area
4cm	2cm	4cm²
6cm	4cm	12cm²
8cm	6cm	24cm²
10cm	8cm	40cm²
12cm	10cm	60cm²

Table 3

Length	Width	Area
5cm	2cm	5cm²
8cm	5cm	20cm²
11cm	8cm	44cm²
14cm	11cm	77cm²
17cm	14cm	119cm²

Draw these triangles onto squared paper and count the squares to find the areas. Do you notice a pattern in the areas? Can you predict the area of the next three triangles in each sequence?

Table 1: The area increases by 3, 4, 5 then 6cm². Next 3: 28cm², 36cm², 45cm².
Table 2: The area increases by 8, 12, 16 and 20cm². Next 3: 84cm², 112cm², 144cm².
Table 3: The area increases by 15, 24, 33 and 42cm². Next 3: 170cm², 230cm², 299cm².

DP

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