

SNOWFLAKES, SNOWFLAKES ALL AROUND





Dora catches
15 snowflakes.

There are 3 different types of snowflakes.

An odd amount of each snowflake lands on Dora's hand.

How many different possible combinations are there?

Have a think



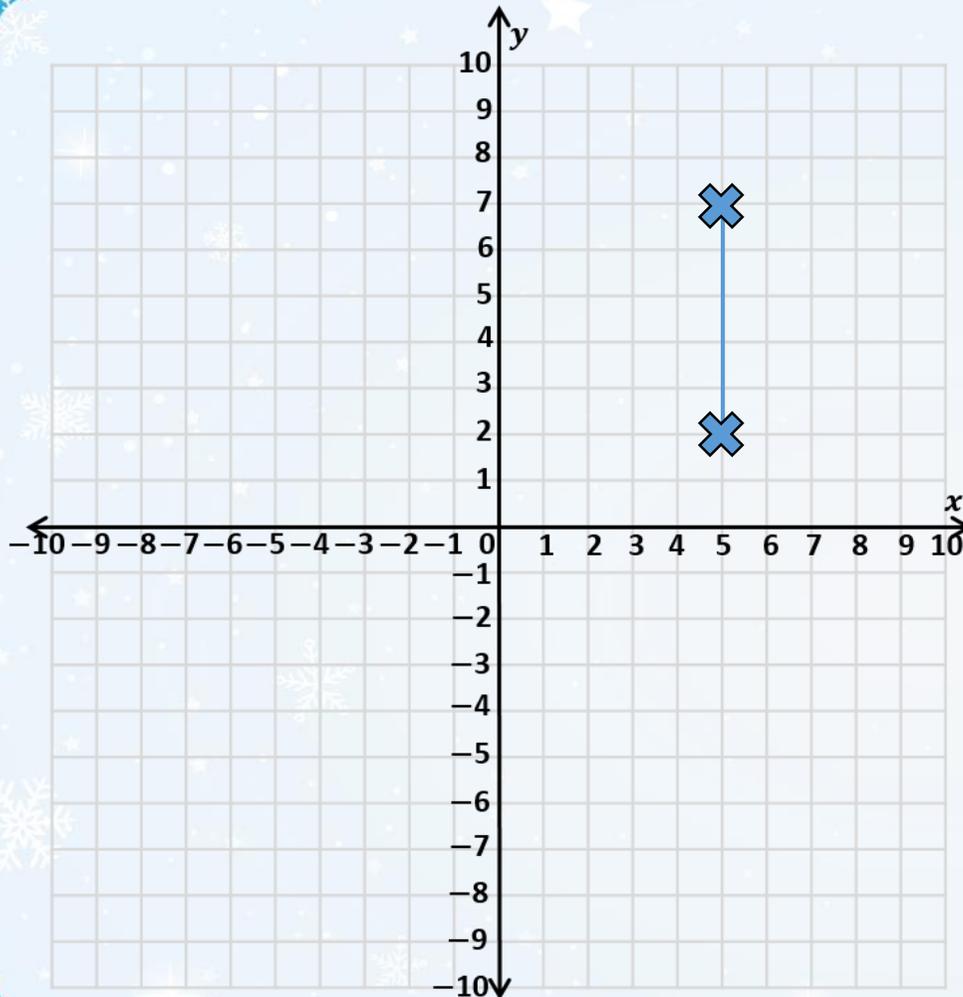


1, 3, 5, 7, 9, 11, 13

1	1	13
1	3	11
1	5	9
1	7	7
3	9	9
3	5	7
5	5	5
5	7	



What if Dora caught a combination of odd and even amounts?



Plot the coordinates.

(5, 2) (5, 7)

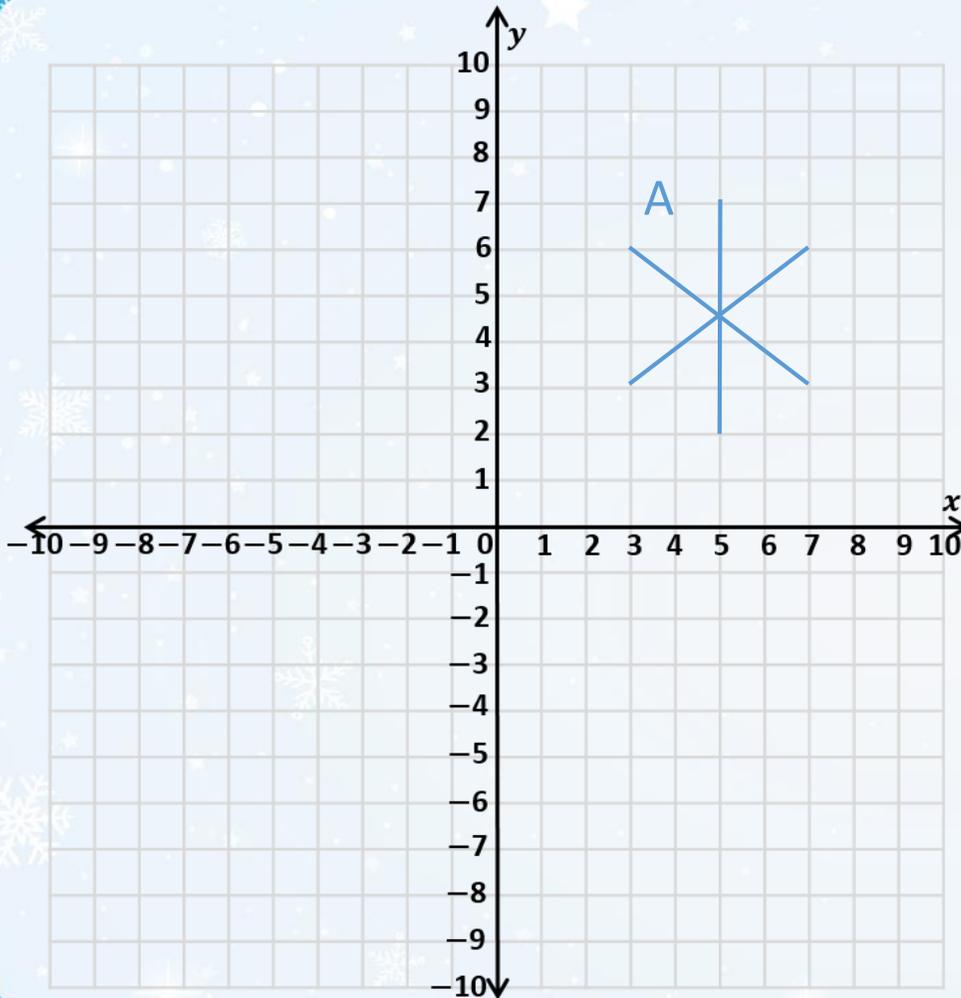
(3, 6) (7, 3)

(3, 3) (7, 6)

Draw a straight line to join each pair of coordinates.

Have a think





(5, 2) (5, 7)

(3, 6) (7, 3)

(3, 3) (7, 6)

Reflect snowflake A in the y -axis.

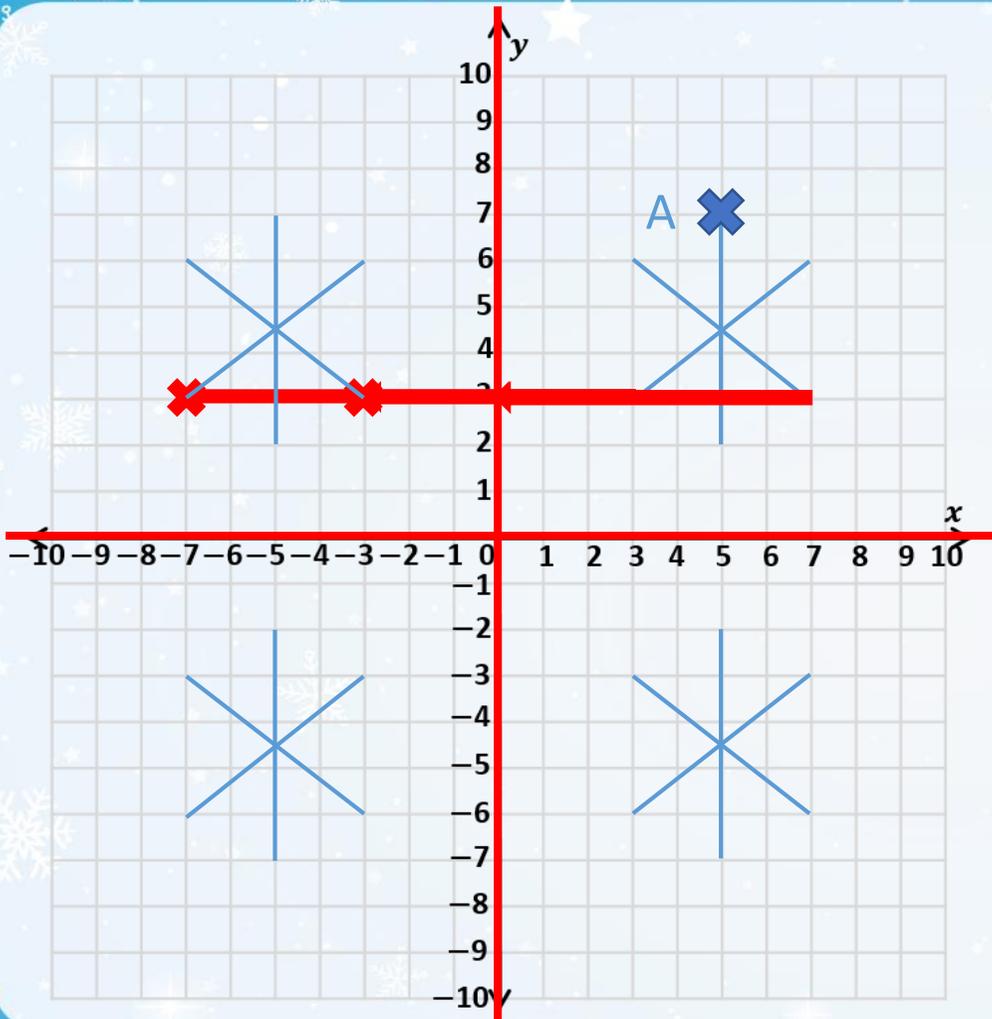
Reflect snowflake A in the x -axis.

Translate snowflake A 10 to the left and 9 down.

What do you notice?

Have a think





(5, 2) (5, 7)

(3, 6) (7, 3)

(3, 3) (7, 6)

Reflect snowflake A in the y -axis.

Reflect snowflake A in the x -axis.

Translate snowflake A 10 to the left and 9 down.

What do you notice?

Can you create a similar question for your friend?

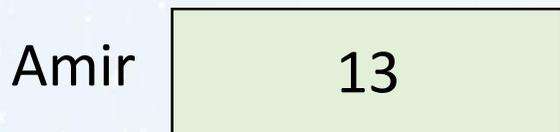
Rosie catches twice as many snowflakes as Amir.
Eva catches 5 snowflakes less than Amir.
Altogether they catch 47 snowflakes.
How many snowflakes does each person catch?



Have a think



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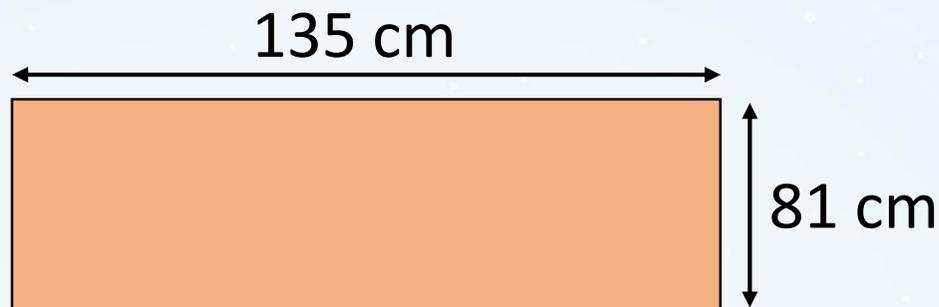
52
~~47~~

$$47 + 5 = 52$$

$$52 \div 4 = 13$$

There are 28 children in Miss Rose's class. Each child is creating a snowflake paperchain to go around their desk.

Have a think

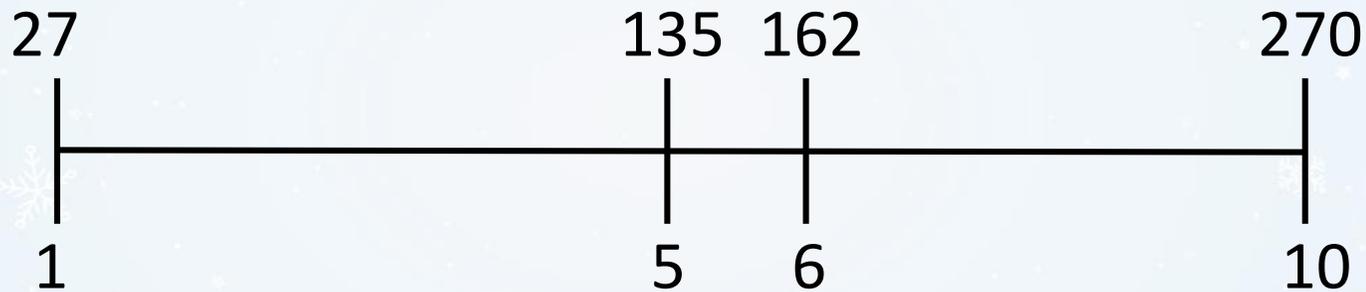


Each individual paper chain they make is 27 cm long.



How many individual paper chains are needed to decorate the perimeter of all 28 desks?

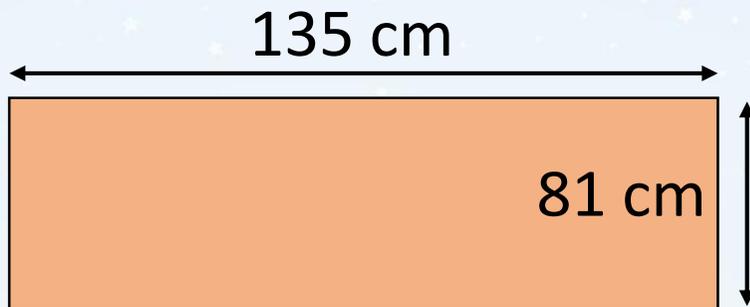
Each individual paper chain they make is 27 cm long.



Length = 10 paper chains

Width = 6 paper chains

Each individual paper chain they make is 27 cm long.



$$\text{Perimeter} = 432 \text{ cm}$$

$$432 \div 27$$

16 individual paper chains are needed.

How many individual paper chains are needed to decorate the perimeter of all 28 desks?

	H	T	O
		2	8
		1	6
		<hr/>	
	1	6	8
	2	8	0
	<hr/>		
	4	4	8