

To be able to investigate rectangles and rectilinear shapes with the same area



Starter:

If each of the small white squares represents 1 cm^2 , what's the same and what's different about the two rectangles shown below?



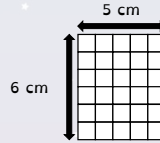
Explain your answer.

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Activity 1:

Referring to the diagram provided, complete the sentences below:



The rectangle has a height of cm.

The rectangle has a width of cm.

The rectangle is made of small squares.

The rectangle has an area of cm^2 .

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Activity 2:

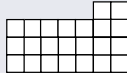
If each smaller square has an area of 1 cm^2 , what is each shape's total area?



 cm^2



 cm^2



 cm^2

What do you notice?
Explain your answer.

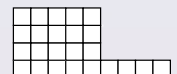
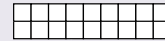
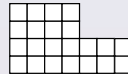
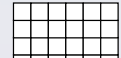
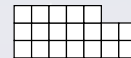
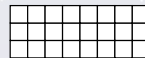
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Activity 3:

Put a line through the shapes that do not have an area of 24 cm^2 .

= 1 cm^2

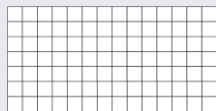
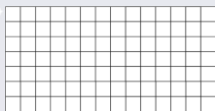


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Activity 4:

Draw two different rectangles that have an area of 10 cm^2 , labelling side lengths.



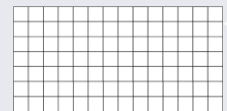
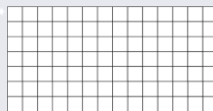
Write the factors of 10.
What do you notice?

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Activity 5:

Draw two different rectilinear shapes that have areas of 16 cm^2 .



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Activity 6:

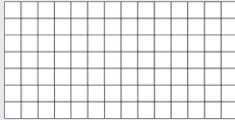
What is the area of the rectangle shown below?



cm²

 = 1 cm²

Draw a rectilinear shape with the same area:



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Activity 7:

James says, "The area of the shape is 35 cm²."



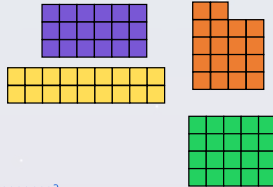
Do you agree?
Explain your answer.

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Evaluation:

The orange shape doesn't belong as it is the only shape that isn't a rectangle.



Is Astrobee's statement the only correct response?
Explain your answer.