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

MathShed

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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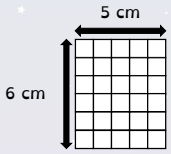
Activity 1:

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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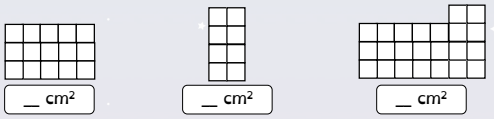
Activity 2:

If each smaller square has an area of 1cm^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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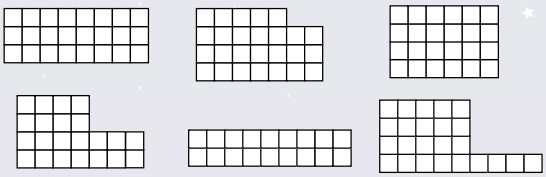
Activity 3:

☐ = 1 cm^2

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



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☐ = 1 cm^2

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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☐ = 1 cm^2

Activity 5:

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

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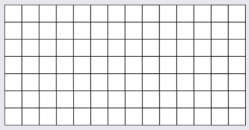
Activity 6:

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 cm^2."

Do you agree?

Explain your answer.

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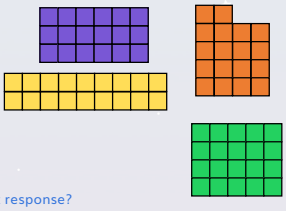
Evaluation:



Is Astrobee's statement the only correct response?

Explain your answer.