PROPERTY OF SHAPE – DAY 3

To be able to identify equilateral, isosceles, right-angled and scalene triangles

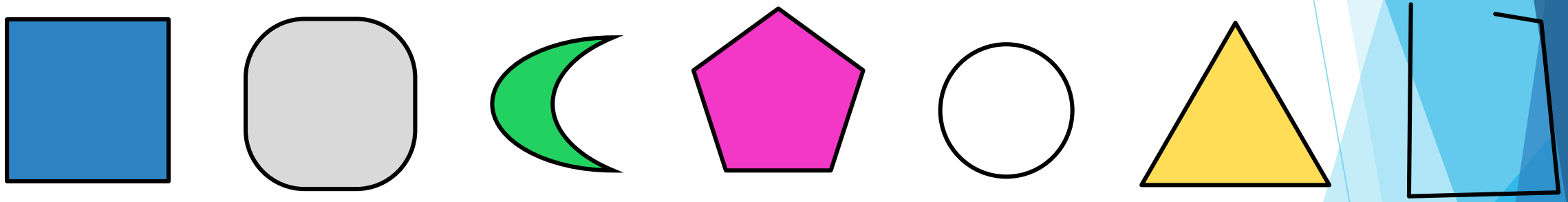
SUCCESS CRITERIA

✓I can measure side lengths of various triangles to identify and name equilateral, isosceles, right-angled and scalene triangles

✓I can explain my reasoning when measuring side lengths of various triangles to identify and name equilateral, isosceles, right-angled and scalene triangles

STARTER

Thinking about polygons, put a line through those that don't belong.



Explain your choices.

STARTER

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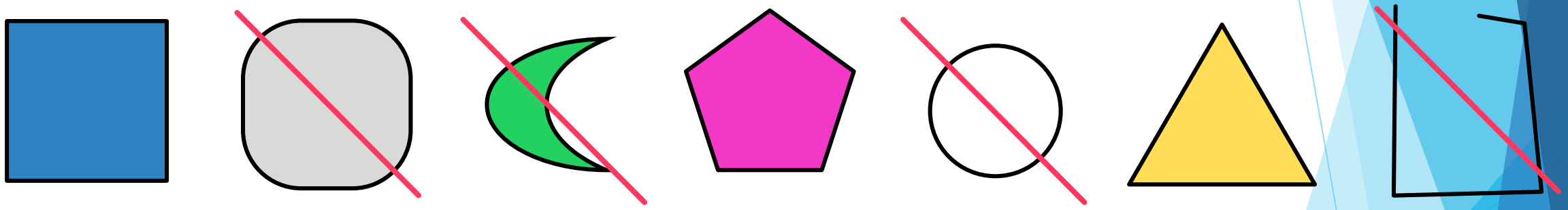
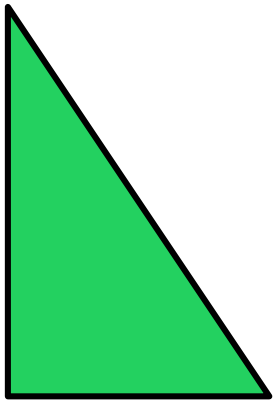
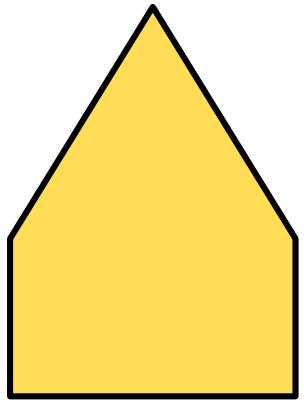


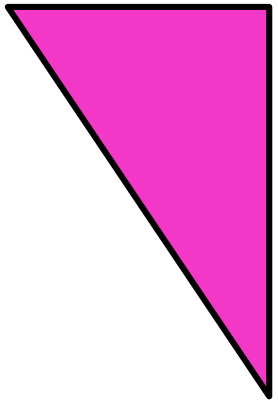
A polygon is an enclose shade up made of straight lines, so the second shape doesn't belong as it has curved edges, the green crescent doesn't belong as it is made from two curved sides, the circle doesn't belong as it has one curved edge and the final sketch doesn't belong as it is not entirely enclosed.

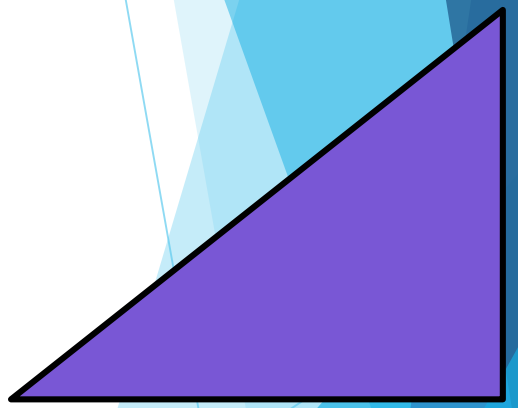
TALKING TIME

Which one doesn’t belong?





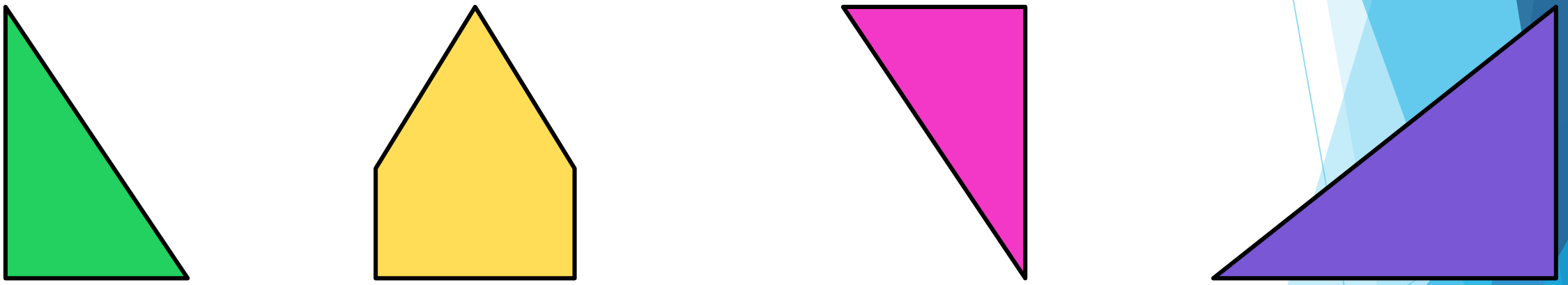




Explain your answer.

TALKING TIME

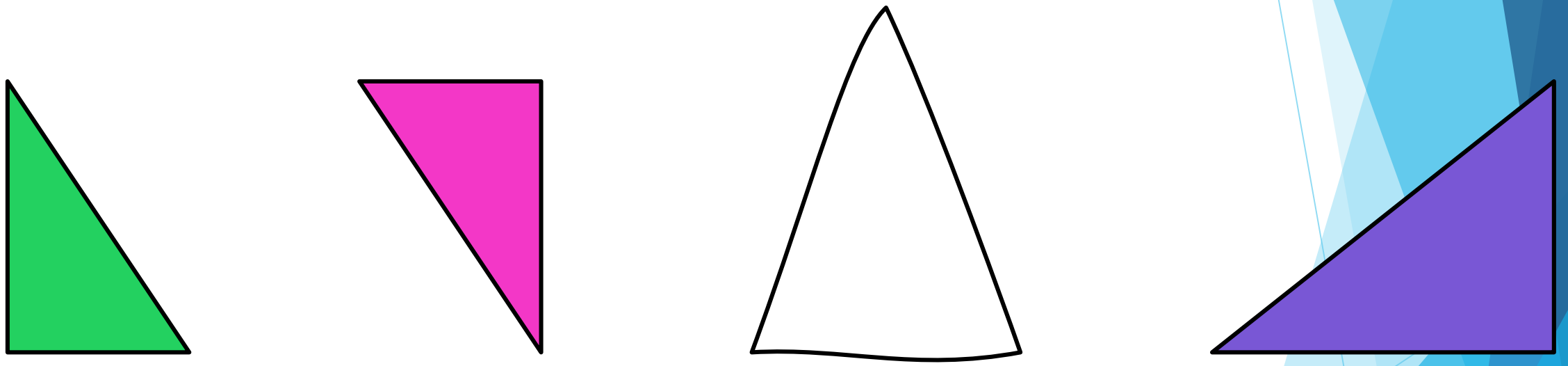
Which one doesn't belong?



The yellow shape doesn't belong as it is a pentagon, whereas the green, pink and purple shapes are all right angle triangles.

TALKING TIME

Which one doesn’t belong?



Explain your answer.

TALKING TIME

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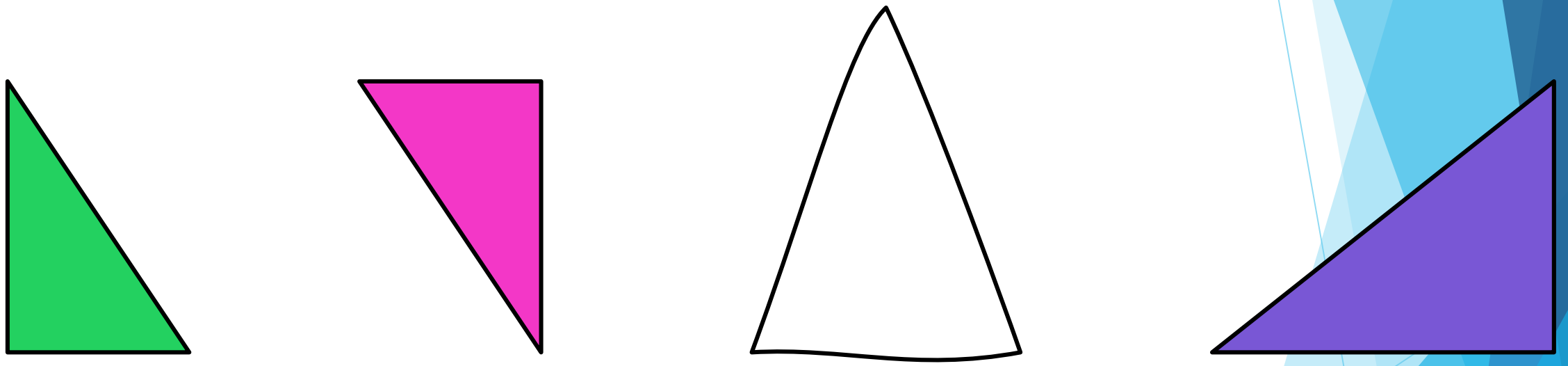
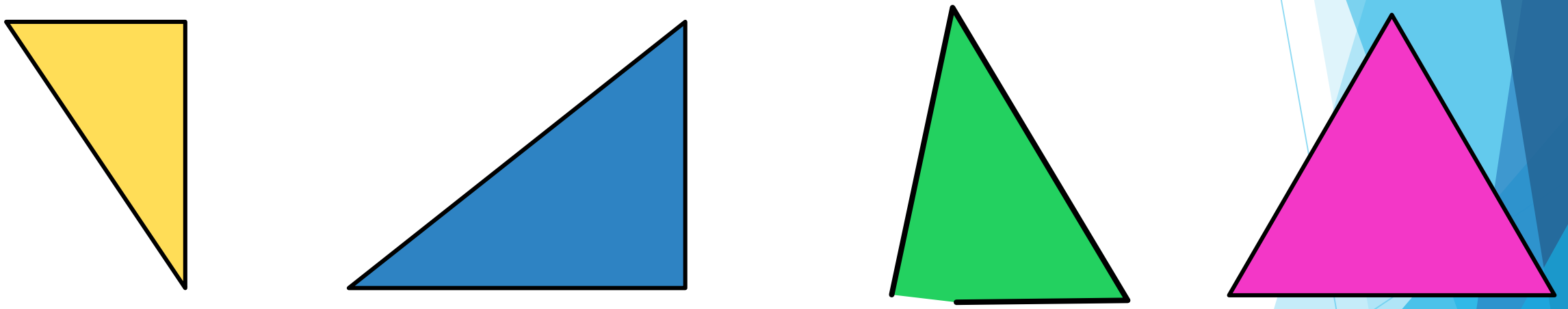


The white shape doesn't belong as although it looks similar to a triangle, it doesn't have straight sides, so is not a triangle.

ACTIVITY 1

Which one doesn’t belong?



Explain your answer.

ACTIVITY 1

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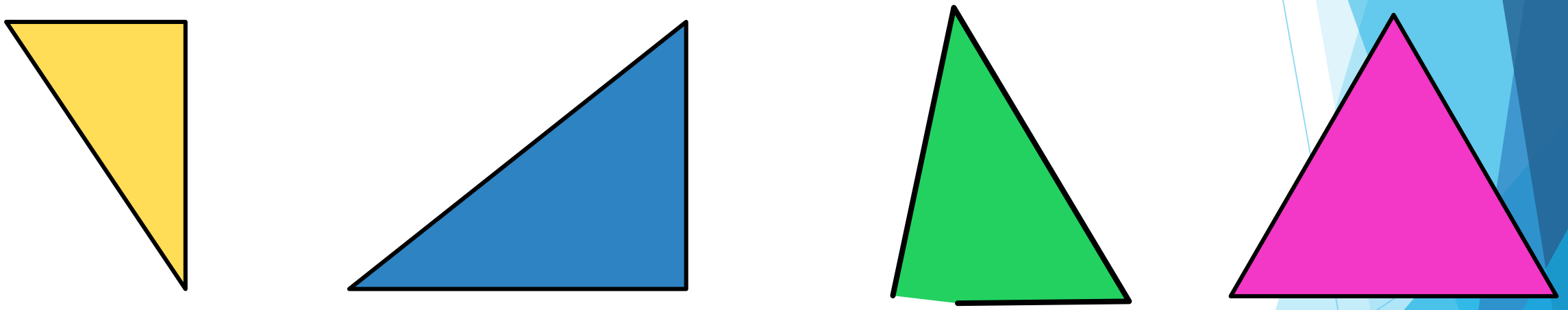
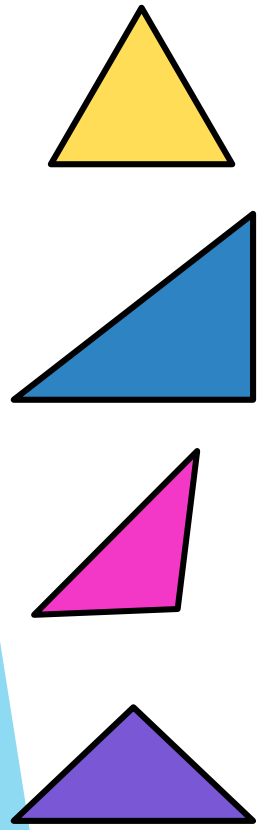


The green shape doesn’t belong as it isn’t entirely enclosed, so cannot be considered a triangle.

ACTIVITY 2

Match the image and sentence fragments together to form example definitions.



A right-angled triangle has	three equal sides and angles.
An equilateral triangle has	3 sides all with different lengths.
An isosceles triangle has	one angle that is 90°.
A scalene triangle has	just two equal sides and angles.

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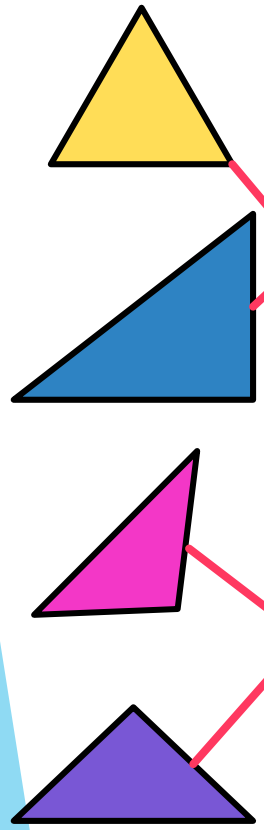

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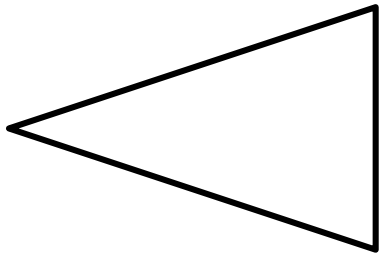
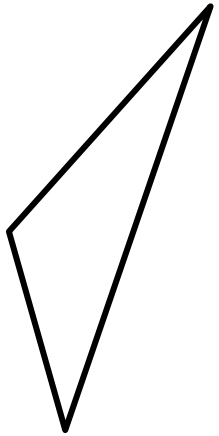
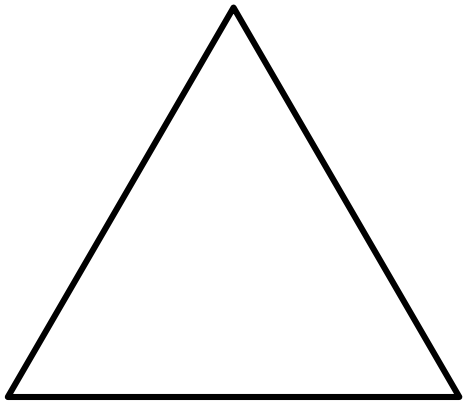
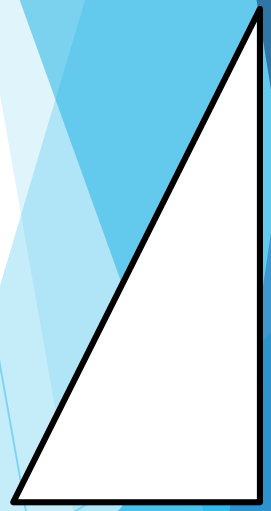
TALKING TIME

Name the types of triangles shown below.









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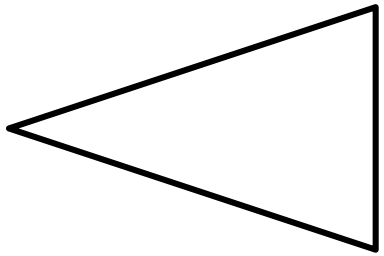
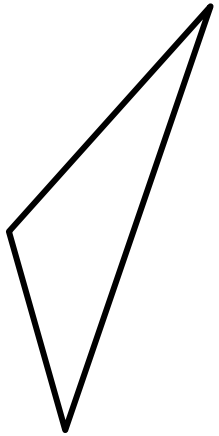
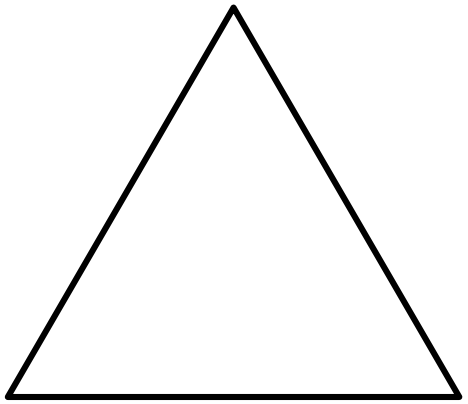


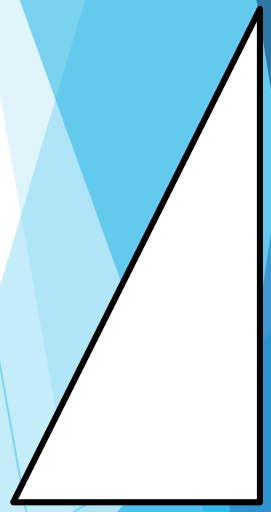
isosceles triangle



scalene triangle



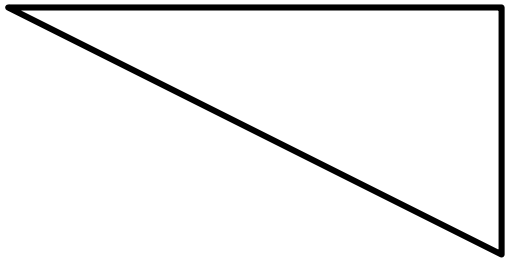
equilateral triangle

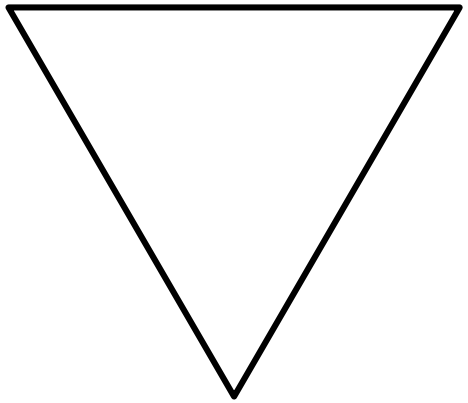


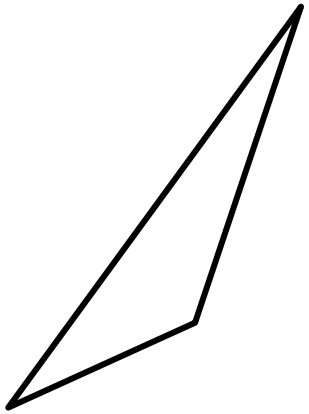
right-angled triangle

ACTIVITY 3

Name the types of triangles shown below.







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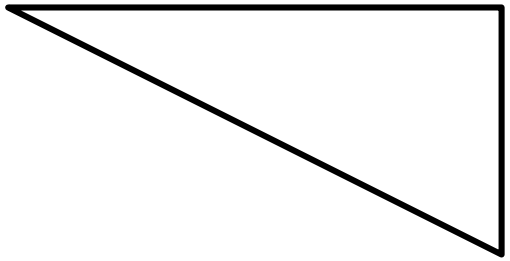
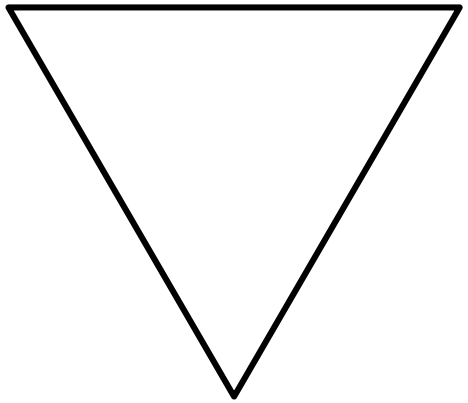
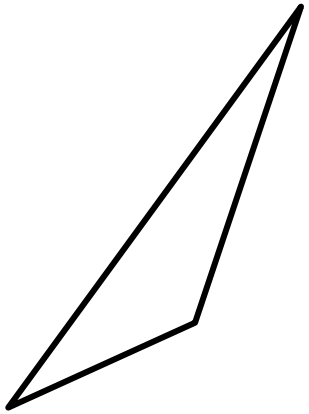


right-angled triangle



equilateral triangle

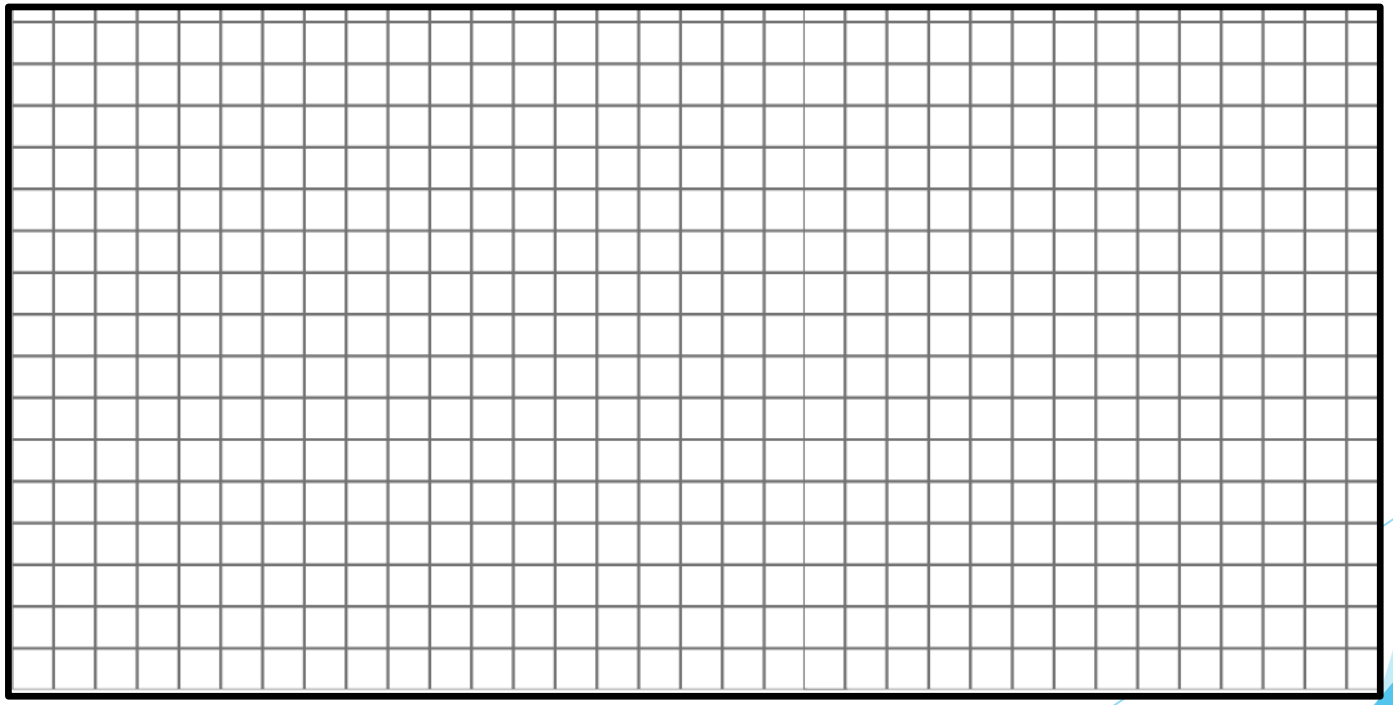


scalene triangle

isosceles triangle

ACTIVITY 4

Use grid paper to help you draw at least one each of equilateral, isosceles, right-angled and scalene triangles.



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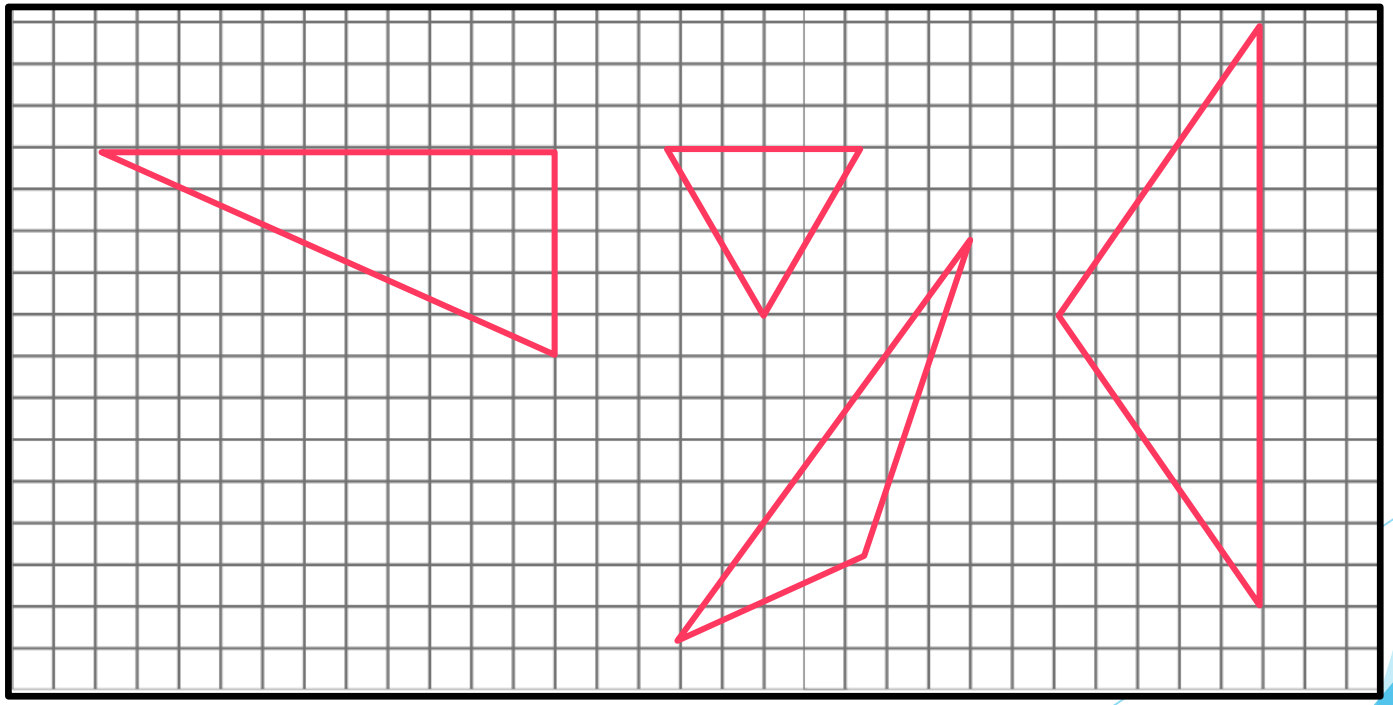
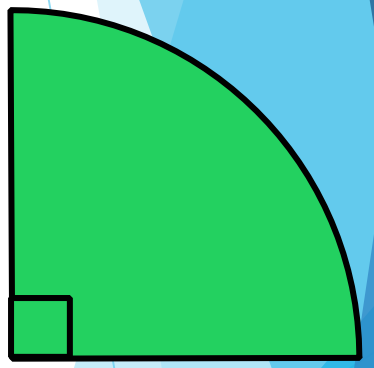


ACTIVITY 5

James says, “My shape has three sides and a right angle. So, it is a right-angled triangle”



Do you agree?

Explain your answer.

ACTIVITY 5

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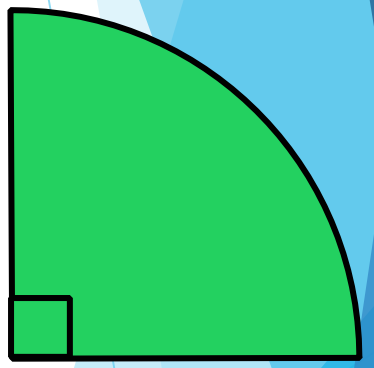
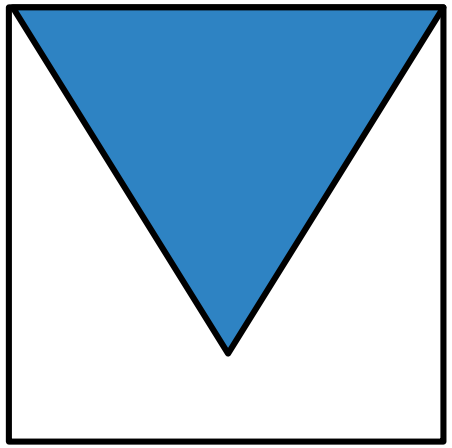


No, I do not agree. For his shape to be a right-angled triangle, all three sides must be straight sides.

ACTIVITY 6

The square shown has a perimeter of 100 cm.



What is the perimeter of the orange equilateral triangle within the square?

Explain your answer.

ACTIVITY 6

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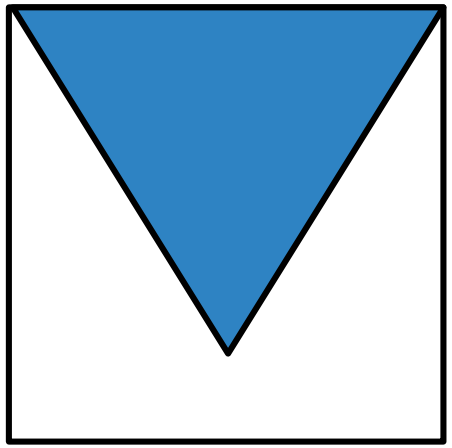
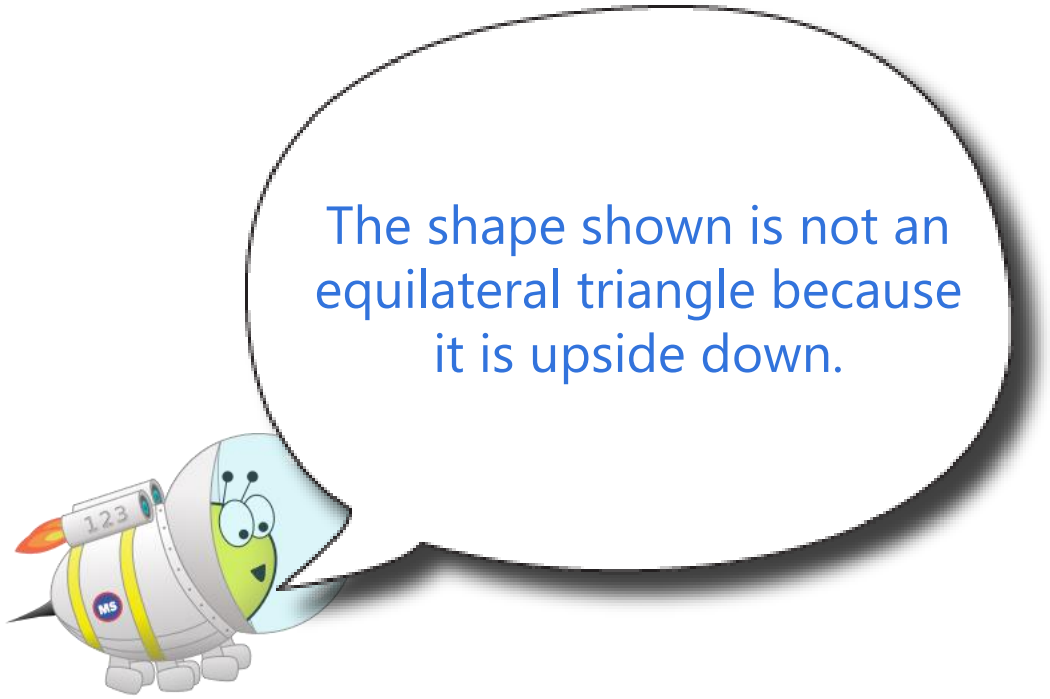
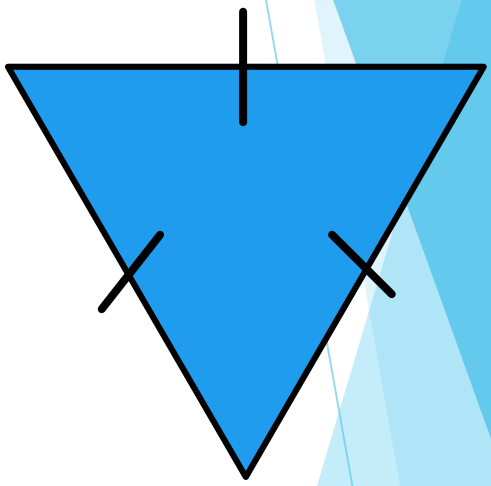


It will have a perimeter of 75 cm, because each of the square's four sides are 25 cm, so each of its three sides are 25 cm. 3 x 25 cm = 75 cm.

EVALUATION

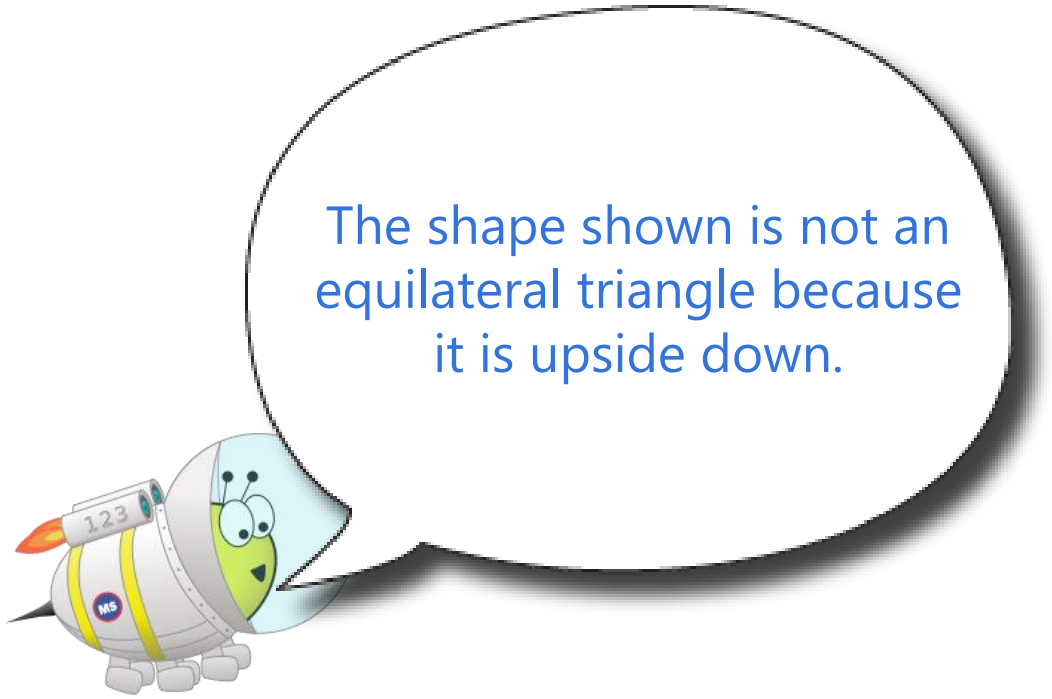


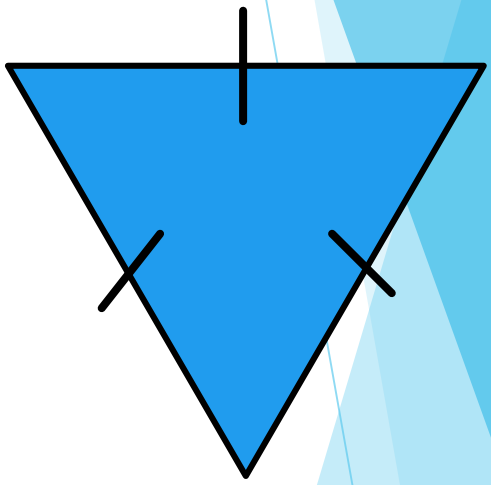


Is Astrobee's statement true or false?

Explain your answer.

EVALUATION





Astrobee's statement is false. As the triangle has three sides of equal length, it is an equilateral triangle. It doesn't matter which way up it has been drawn.