

PROPERTY OF SHAPE - DAY 5

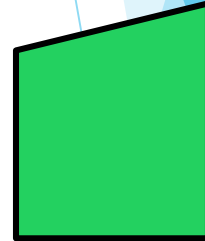
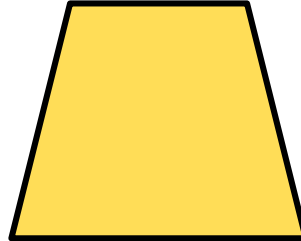
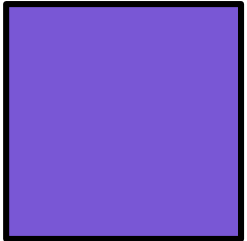
To be able to find and identify lines of symmetry

SUCCESS CRITERIA

- ✓ I can find and identify lines of symmetry in a range of 2-D shapes
- ✓ I can explain my reasoning when finding and identifying lines of symmetry in a range of 2-D shapes

STARTER

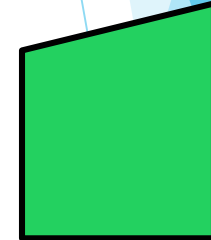
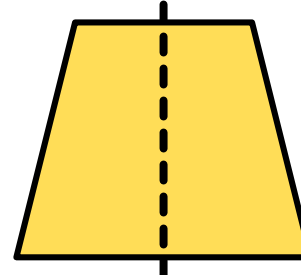
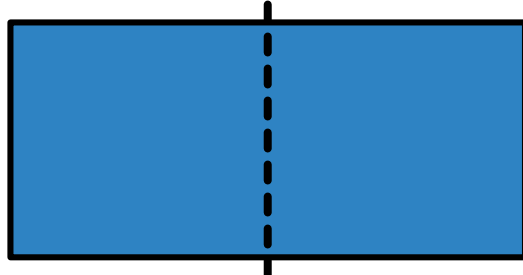
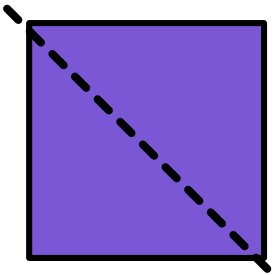
Which one doesn't belong?



Explain your answer.

STARTER

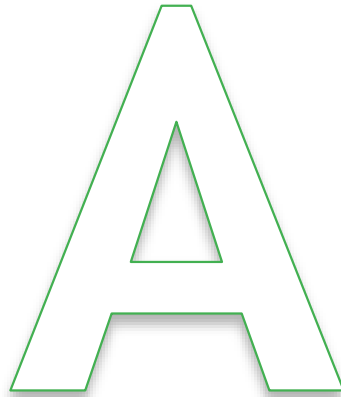
Which one doesn't belong?



The green right-angled trapezium doesn't belong as it is the only shape that isn't symmetrical. The other quadrilaterals each have at least one line of symmetry.

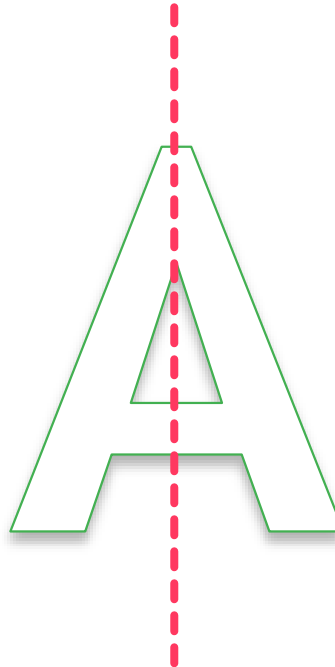
TALKING TIME

Draw the vertical line of symmetry on the shape shown below.



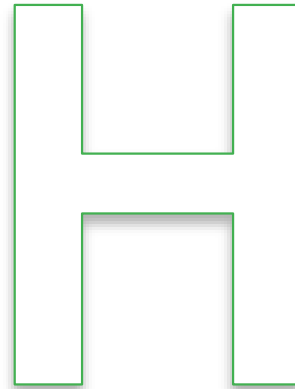
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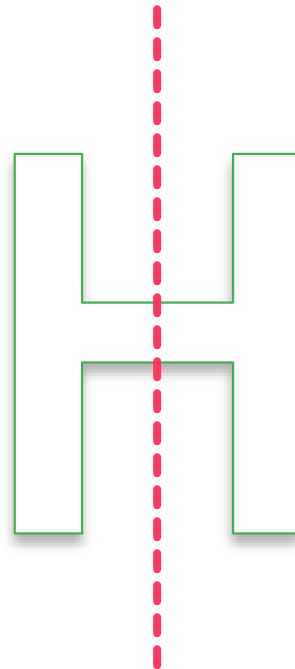
TALKING TIME

Draw the vertical line of symmetry on the shape shown below.



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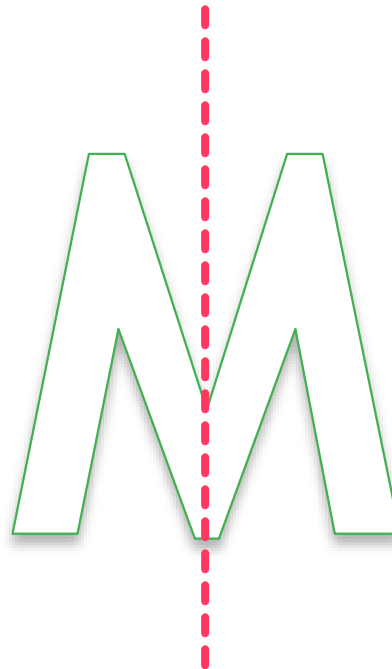
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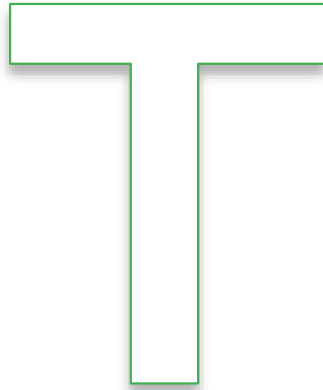
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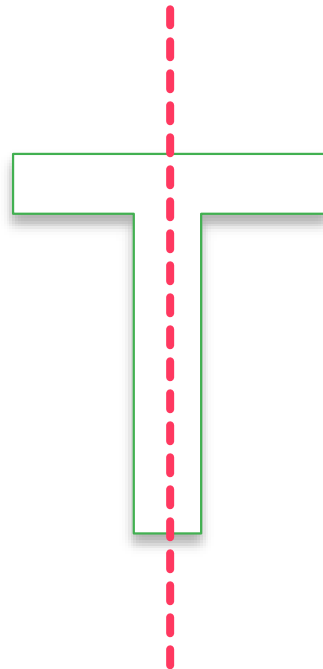
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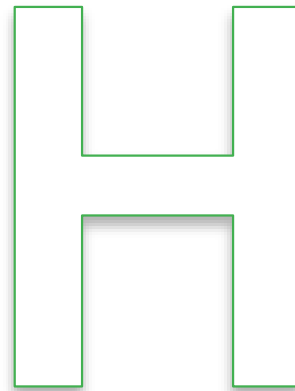
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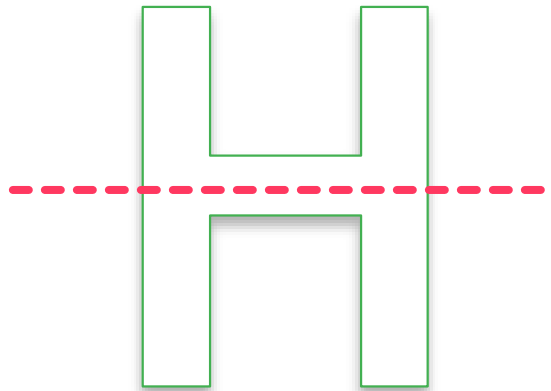
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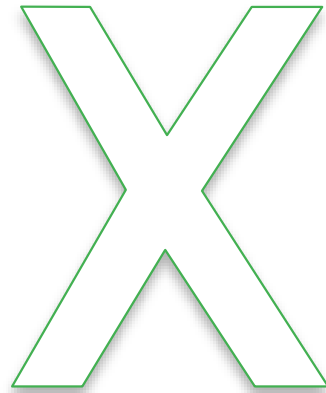
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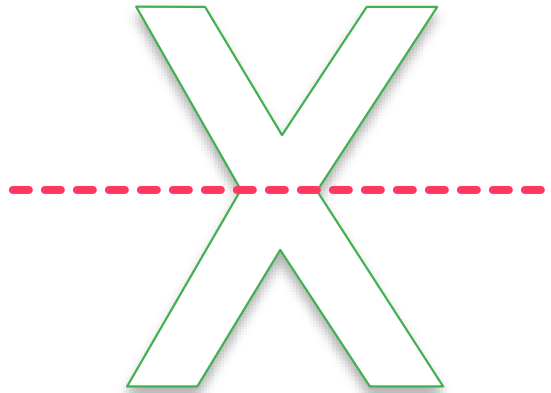
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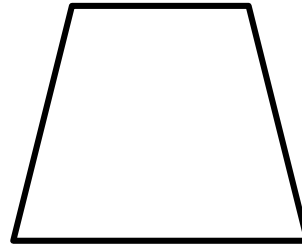
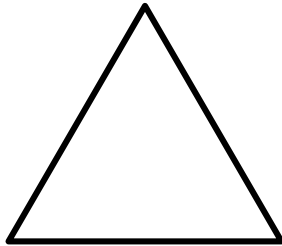
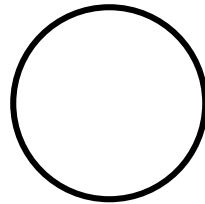
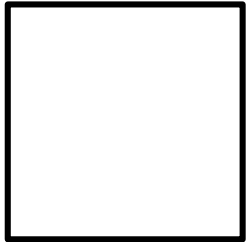
TALKING TIME

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ACTIVITY 1

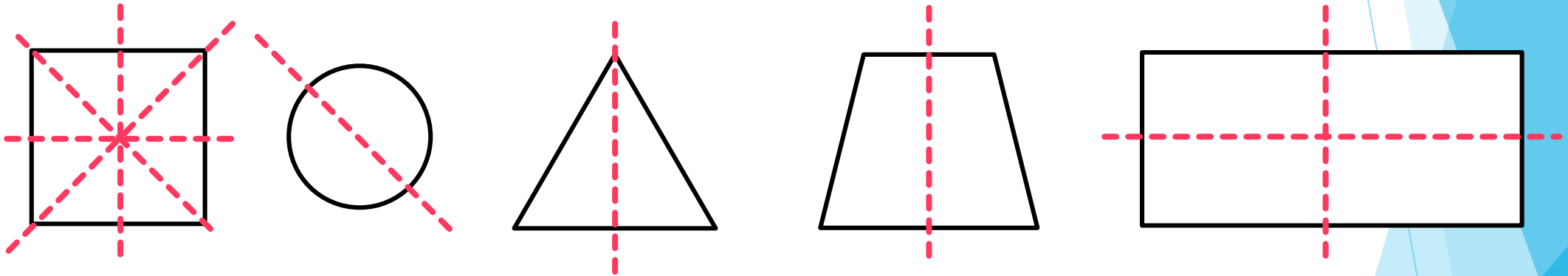
Make the following shapes using paper or card.



Find their lines of symmetry by folding them in half.
Can you find shapes that can be folded in half in multiple ways?

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Find their lines of symmetry by folding them in half.
Can you find shapes that can be folded in half in multiple ways?

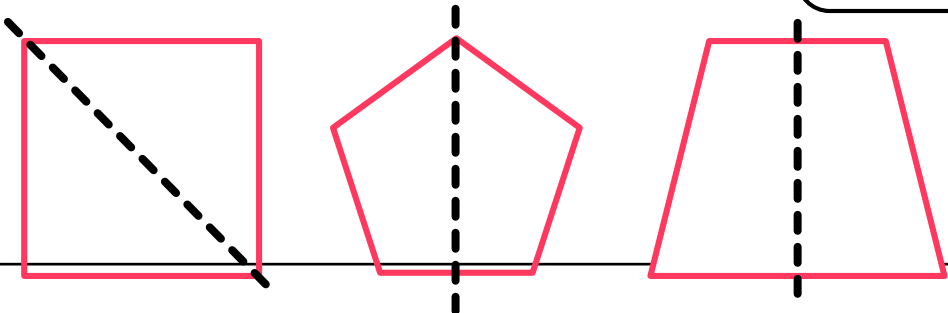
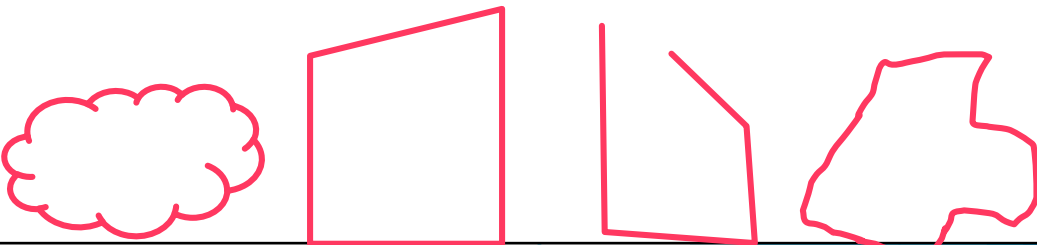
ACTIVITY 2

Complete the Frayer Model below.

definition:		characteristics:	
example:	symmetrical	non-examples:	

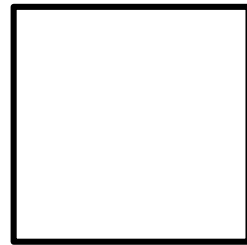
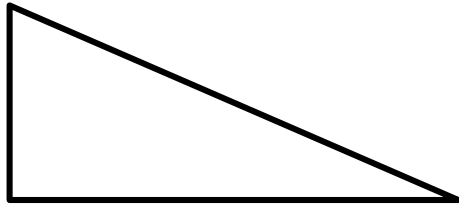
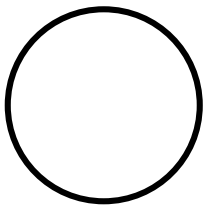
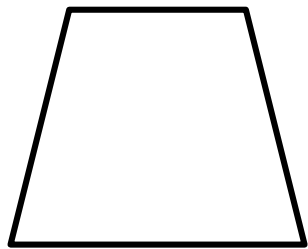
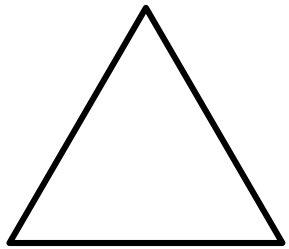
ACTIVITY 2

Complete the Frayer Model below.

definition: If something is symmetrical, it has two halves which are exactly the same.	characteristics: - edges and vertices meet when folded
example: 	symmetrical non-examples: 

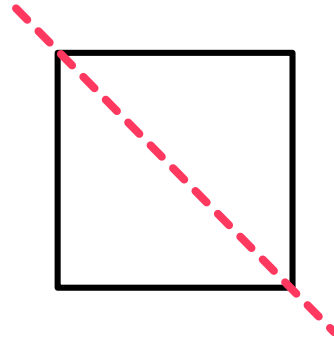
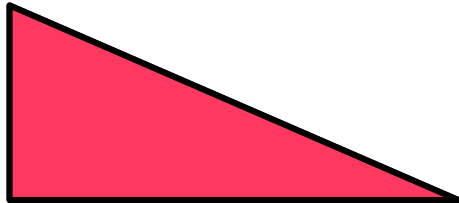
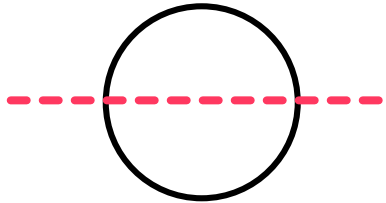
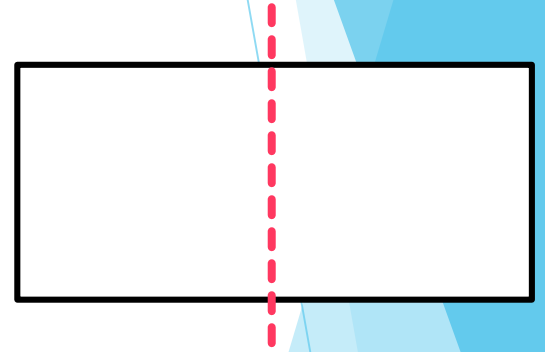
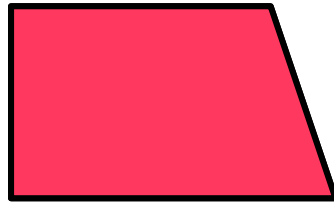
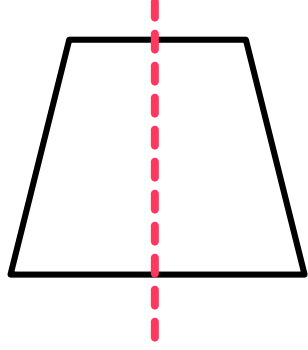
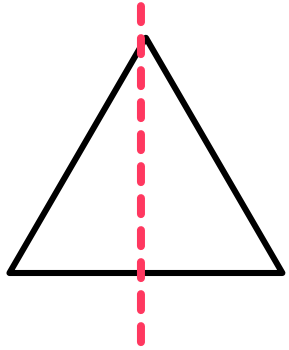
ACTIVITY 3

Shade in the shapes below that do not have any lines of symmetry.



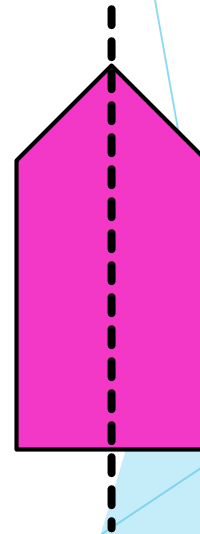
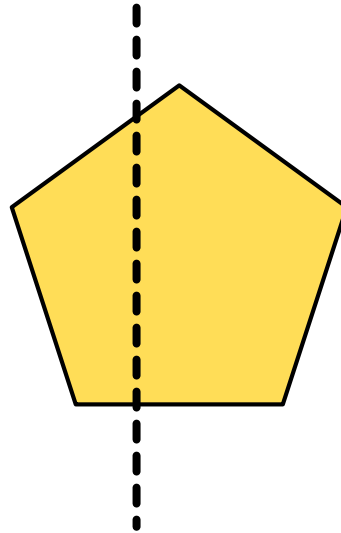
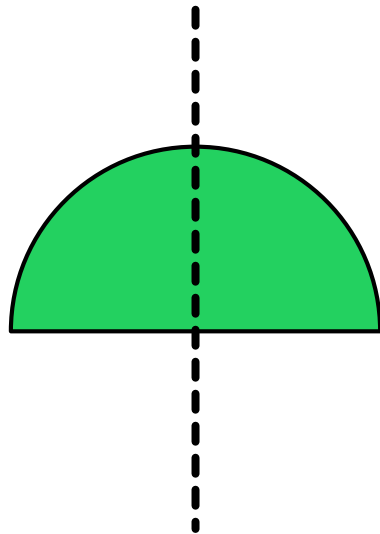
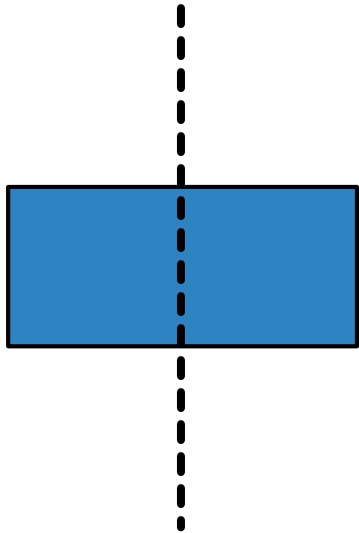
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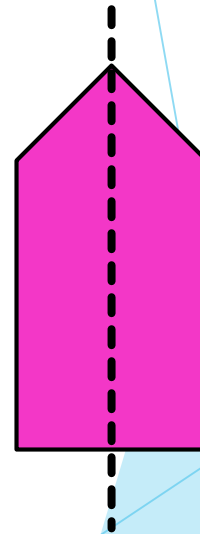
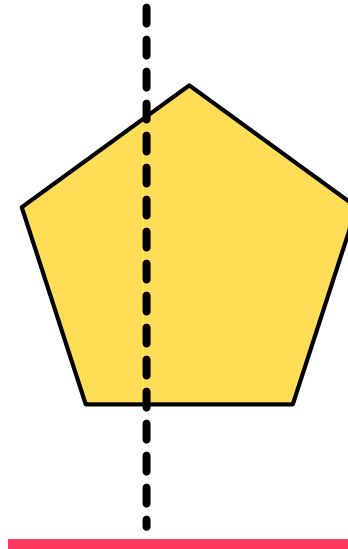
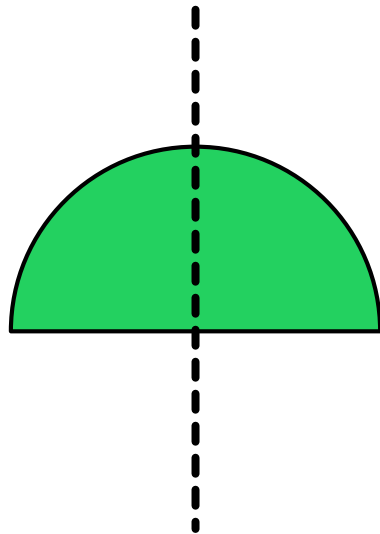
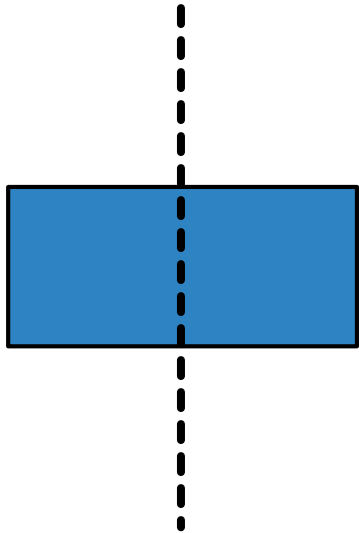
TALKING TIME

Underline the shape that has had a line of symmetry incorrectly marked.



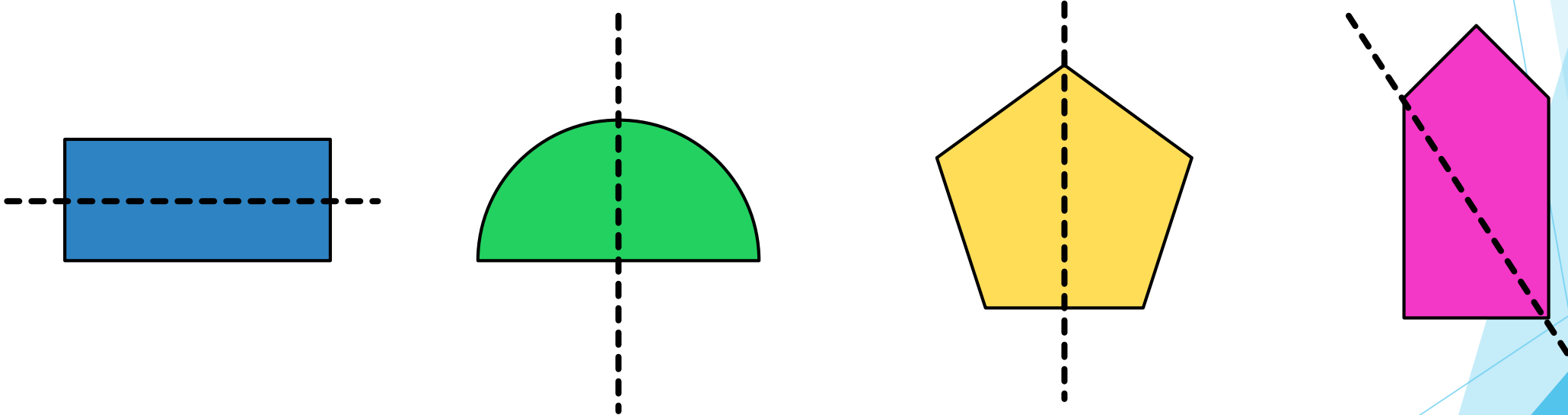
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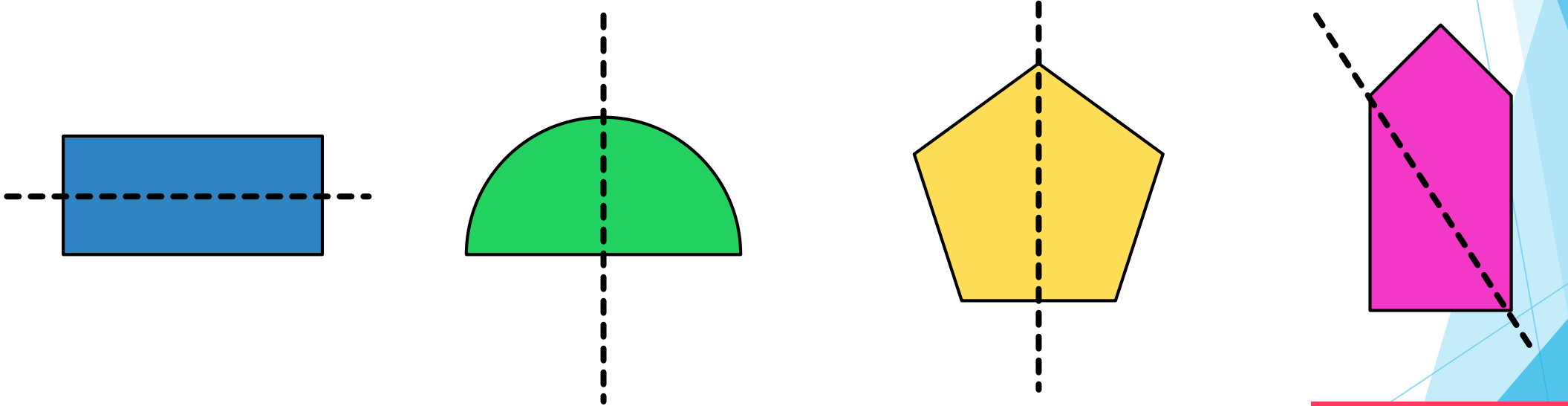
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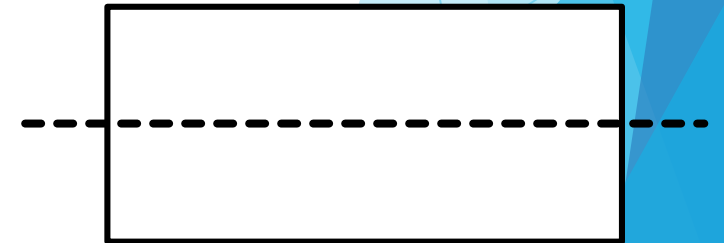
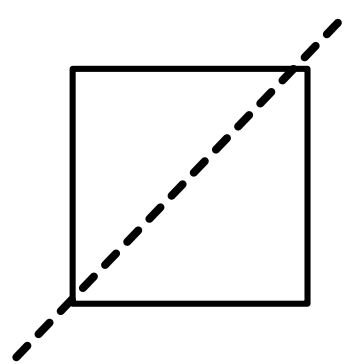
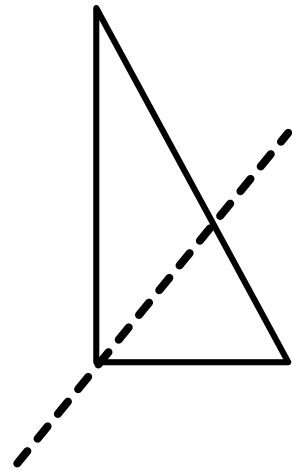
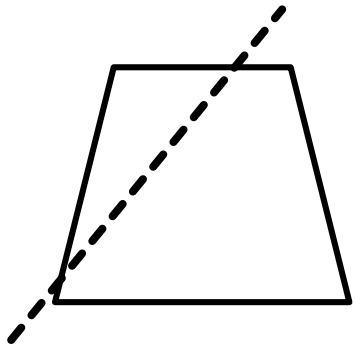
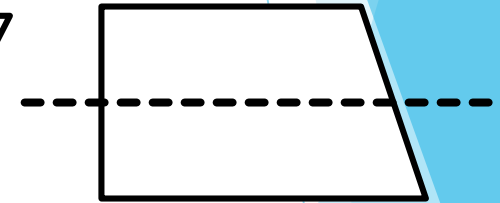
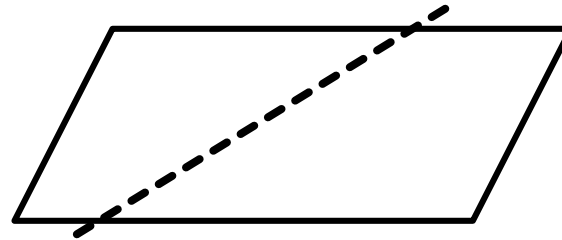
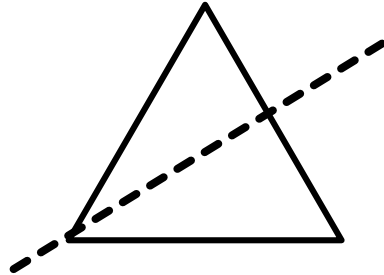
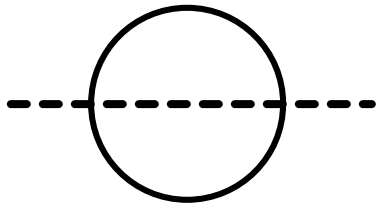
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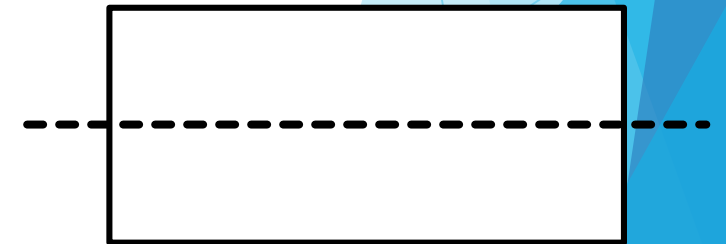
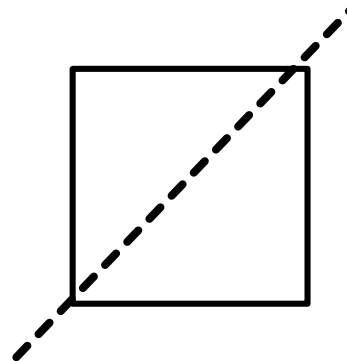
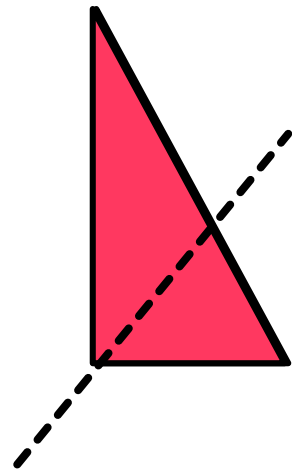
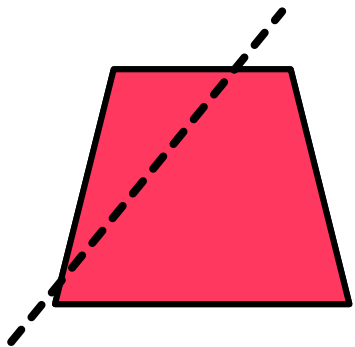
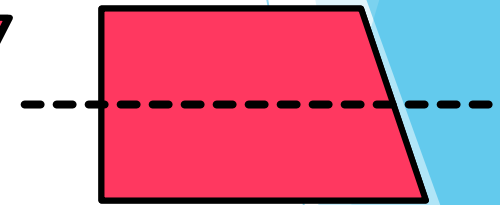
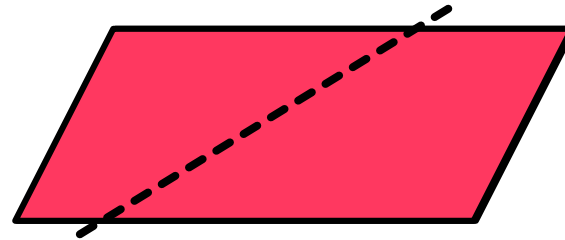
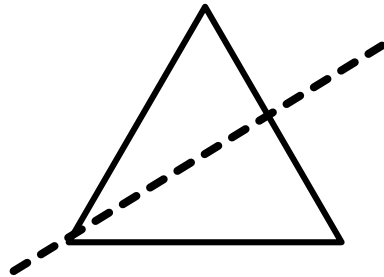
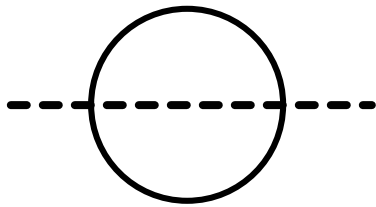
ACTIVITY 4

Shade in the shapes below that have had lines of symmetry incorrectly marked.



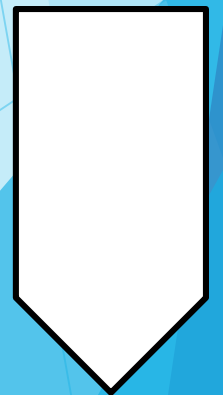
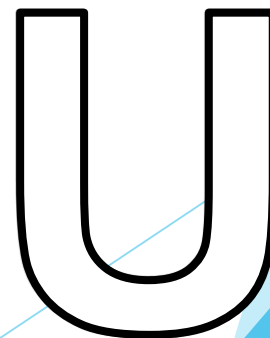
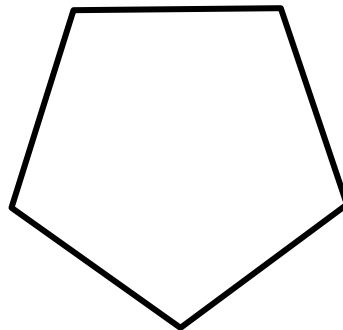
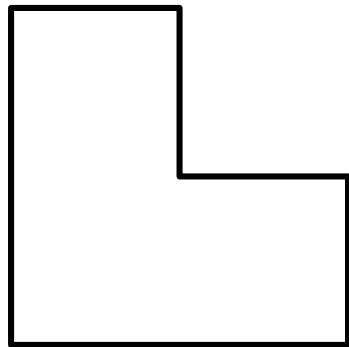
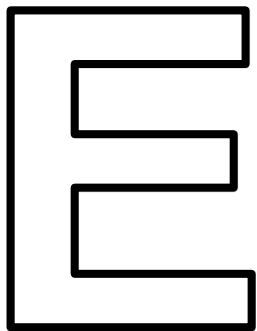
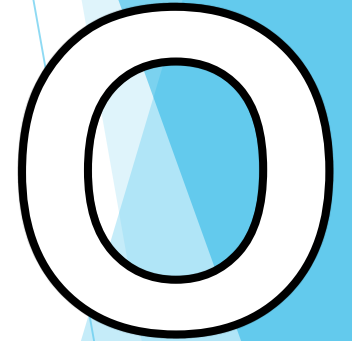
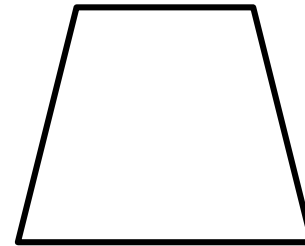
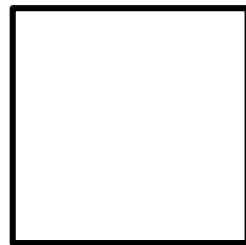
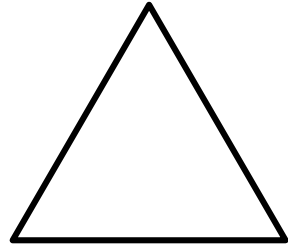
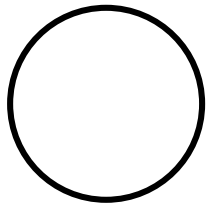
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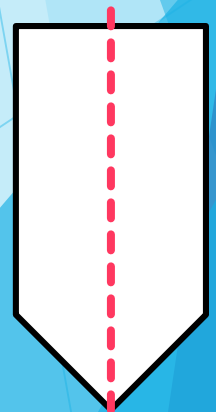
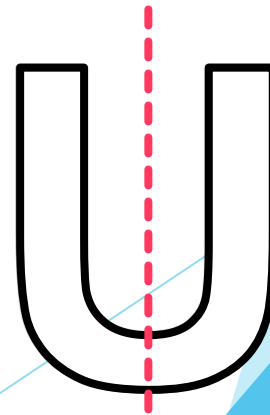
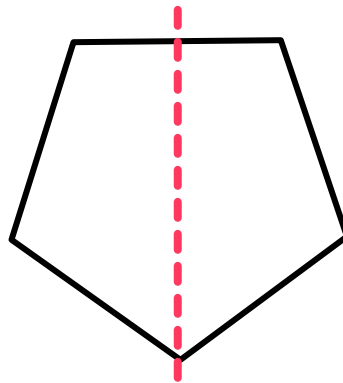
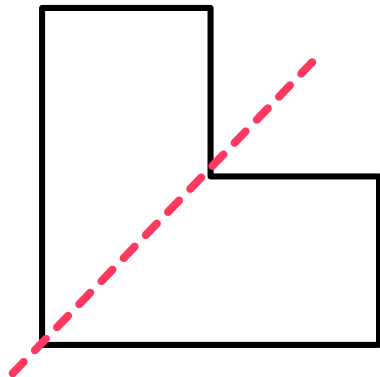
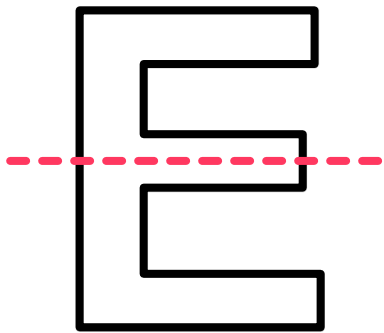
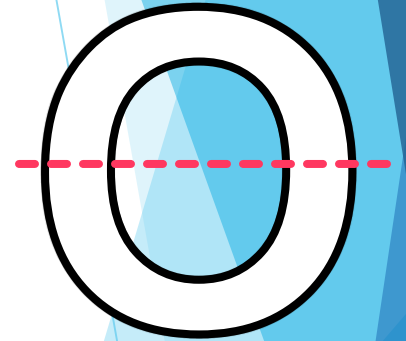
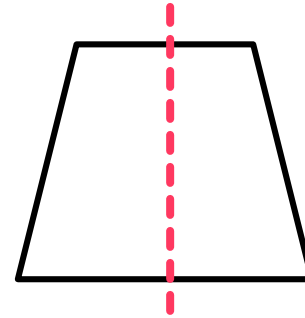
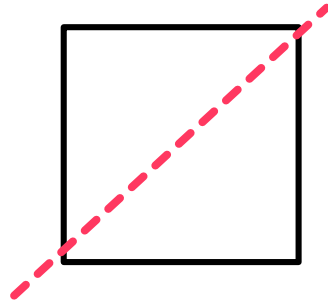
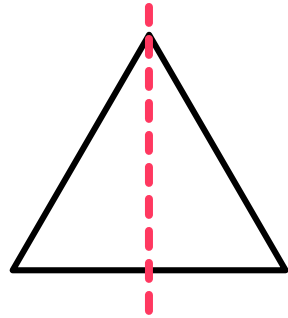
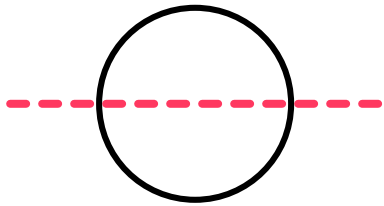
ACTIVITY 5

Mark lines of symmetry on the shapes below.



ACTIVITY 5

Mark lines of symmetry on the shapes below.



ACTIVITY 6

James says, “All of the road signs are symmetrical.”



Do you agree?
Explain your answer.

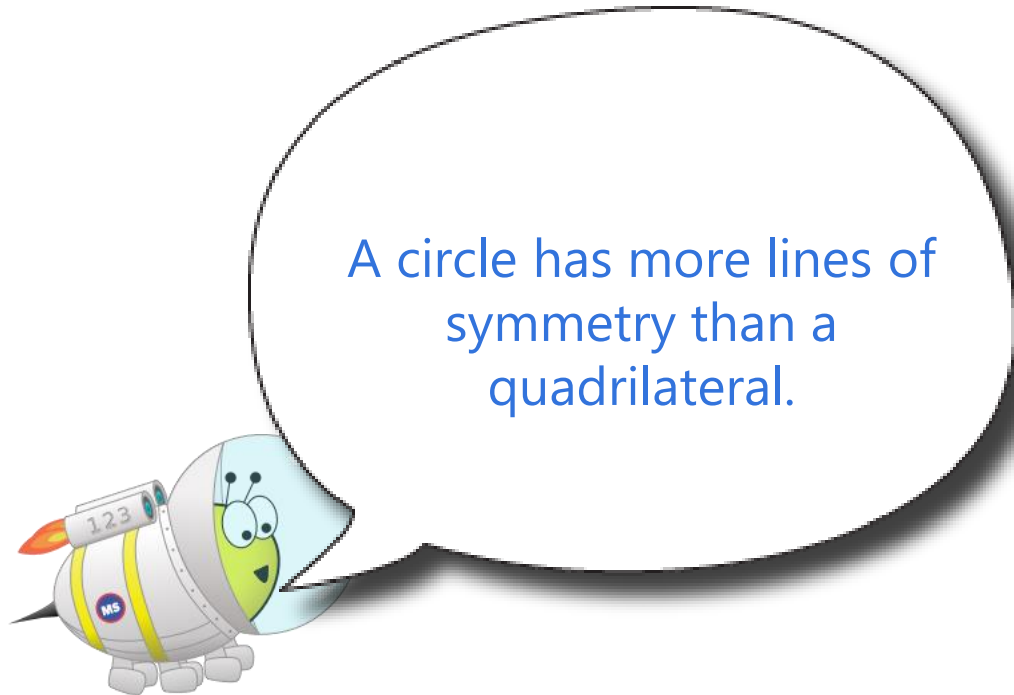
ACTIVITY 6

James says, “All of the road signs are symmetrical.”



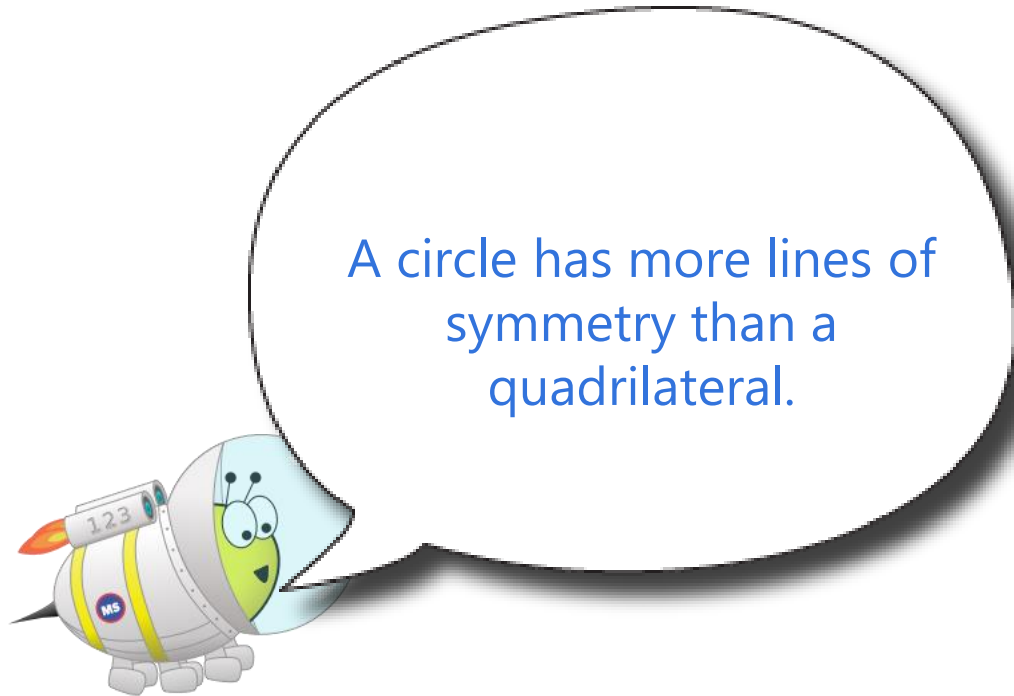
No, I do not agree. The middle sign on the top row isn't symmetrical. The 93 sign isn't symmetrical as the digits would be different if reflected. The crooked arrow makes the bottom right-hand sign asymmetrical too.

EVALUATION



Is Astrobee's statement always, sometimes or never true?
Explain your answer.

EVALUATION



Astrobee's statement is always true. Although (for example) squares have four lines of symmetry, a circle has an infinite amount of lines of symmetry.