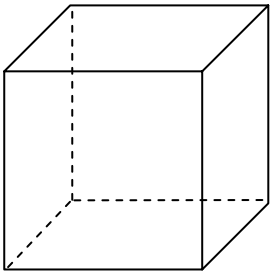
[Month Day ( )]

Think about why a regular pentagon cannot be created (1)

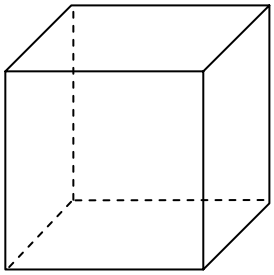
First Grade	Class No.	Name:

When a cube is cut with a plane, is it impossible to create a regular pentagon-shaped cut surface regardless of` how it is cut? Regarding cases where pentagon-shaped cut surfaces are created observe them from various angles and then give a conclusion and reason(s).

While recording the figures that you have observed, think about if it is possible to create a regular pentagon.



What type of a pentagon is it?



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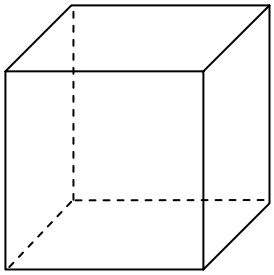
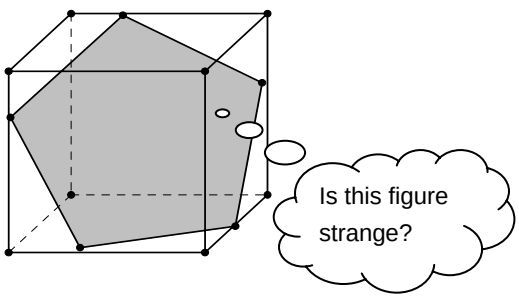


What type of a pentagon is it?

Is it impossible to create a regular pentagon? Summarize your opinions.

[Focus on the following points]

- Why was it possible to create a regular hexagon?
- What are the differences between a regular pentagon and a regular hexagon?
- What are the positional relationships between the sides of the regular pentagon and between its sides and vertexes?
- Where do sides of a regular polygon appear?



[Learning impressions]