

Good practices INTER_516A_EN

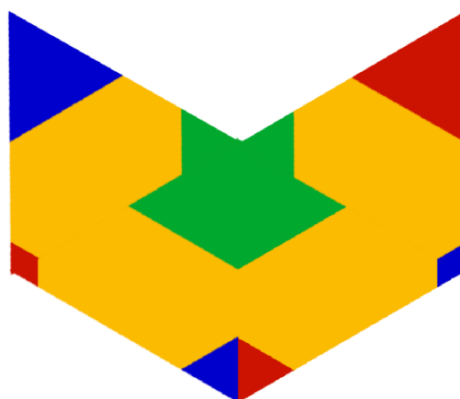
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Description of the problem/exercise: **Cat**

Basic elements used: Triangle

Description of the task: Make a kitten's head out of four triangles of the same base colour. Match triangles of the same size at the outer joints. The 'tip-top' of the cat's ears should be large triangles. Match the triangles so that you get a smaller kitten inside the joints, formed by large and medium triangles of the same colour.

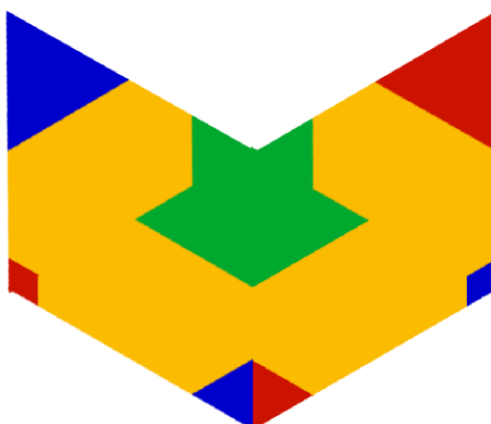


Exercises and questions related to the text:

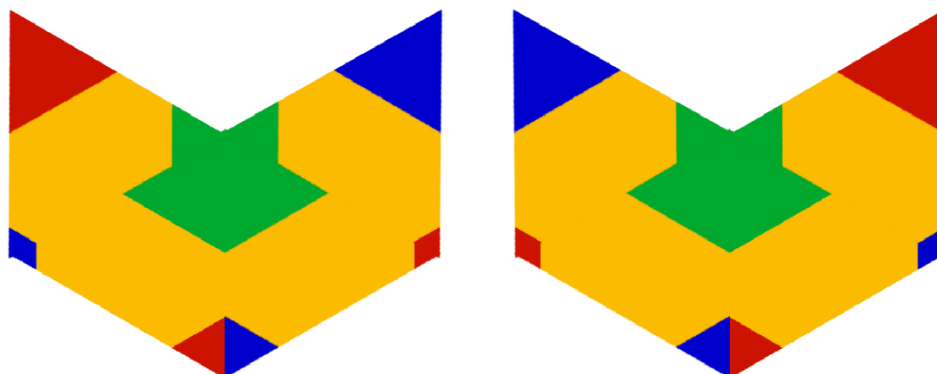
- Given the same basic colour, how many different big and small kittens can you make?
- How many different big and small kittens with the same basic colour can you put up?

Solutions:

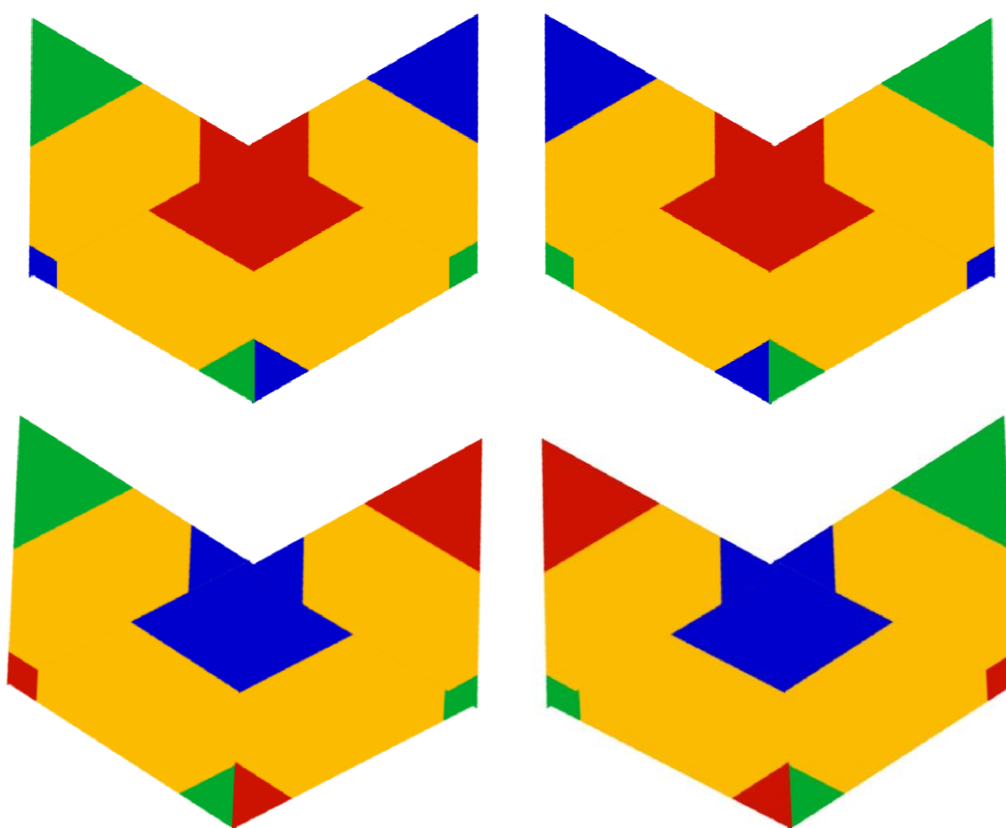
- One cat on the basis of the given conditions.



2. Look at the number of solutions for the yellow base colour (big kitten) and the green smaller kitten.



The criteria are 2 kittens. The same applies for the yellow big kitten and the red or blue smaller kitten.



For a basic colour, you can have 6 different big and small kittens.

Since there are 4 basic colours, the number of solutions is $6 \times 4 = 24$ different kittens can be placed.

- *Why this is a good exercise. Using the given criteria, the learner has to group the elements, organize them and choose the one that meets the requirements. They have to find several possible solutions. Develops visuality.*
- *At what level can it be used: Primary school, lower secondary school (6-10)*
- *School subject(s): Mathematics, arts, natural sciences*