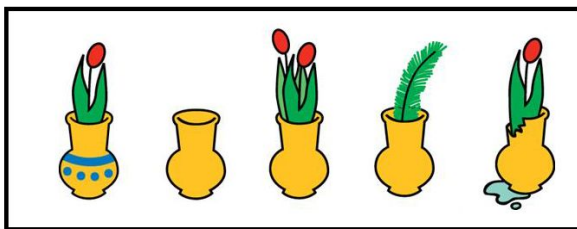
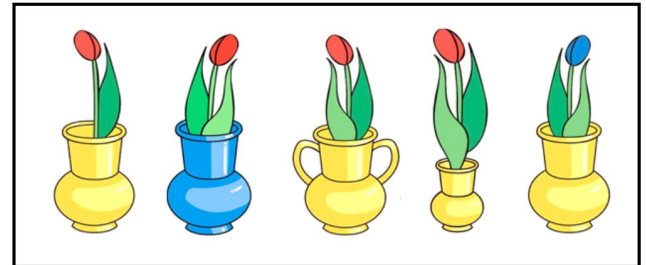


The odd one out and the SET game.

Today we will continue to discuss properties of objects.

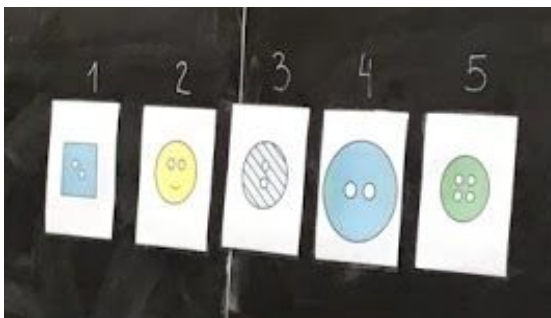
First, we will look at set of pictures and discuss why each of the picture can be **the odd one out**.

Vases with flowers. Vase 1 could be the odd one out because of the number of leaves on the flower's stem: it only has one, while the others all have two. Vase 2 is blue and the others are yellow. Vase 3 is the only one with handles. Vase 4 is small and the others are large. Vase 5 is blue, but the flowers in the other vases are red.



Is it possible to draw a number of vases that will differ from these five but still satisfy the rule and to be the odd one out? What about a vase with no flowers at all? Or a vase with two flowers (or any different number of flowers)? You could also draw a vase containing a fir

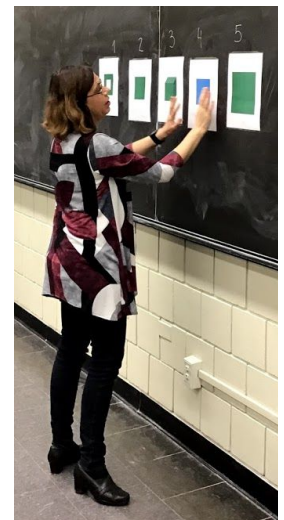
branch instead of a flower, or the vase could have a pattern on it. It could also be broken or cracked (since the others are undamaged). The possibilities are endless, you just need to use your imagination.



Buttons. Button 1 could be the odd one out because of its shape: it is square and the others are round. Button 2 is just pretending that it is a button, but it is not a button, it is a smiley face :). Button 3 has stripes and the others don't. Button 4 is large and the others are small. Button 5 has four holes while all the others have two.

Shapes. Shape 1 could be the odd one out because it is the only one with a hole. Shape 3 is three-dimensional: all the others are two-dimensional. Shape 4 is blue when all others are green. Shape 5 is large and the others are small. Shape 2 is the only one that cannot be the odd one out: it does not have a single characteristic that cannot be found in the other shapes.

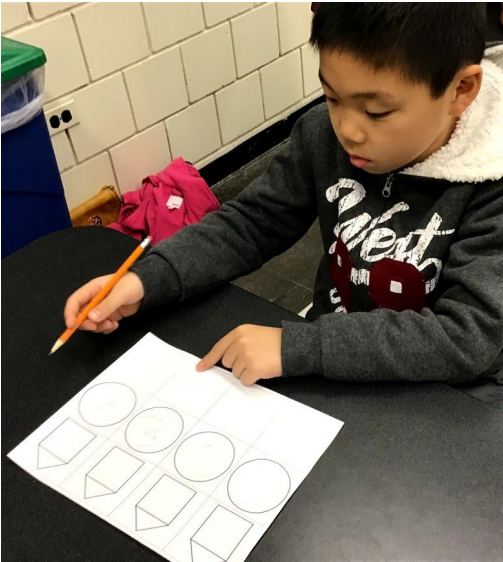
This can easily be changed, however, and there are a number of options.



Second, we will try to create this kind of “odd one out” pictures by ourselves.

Look at Lydia’s houses: Her 1st house has curtains, while all others don’t. The 2nd house is the only one with a door and a chimney, others are doorless. The 3rd house is the only one with fences, and only the 4th house has an attic window. Therefore, all of Lydia’s houses can be the “odd one out”.

And look at Vardhan’s houses: His 1st house is the only one with 4 windows, while all others have 2 windows. His 2nd house has an attic window, while all others don’t. The 3rd house has a bow-tie on it, while none of the others do. And his 4th house is the only one with no property making it “the odd one out”, which is exactly what makes it the “odd one out”.



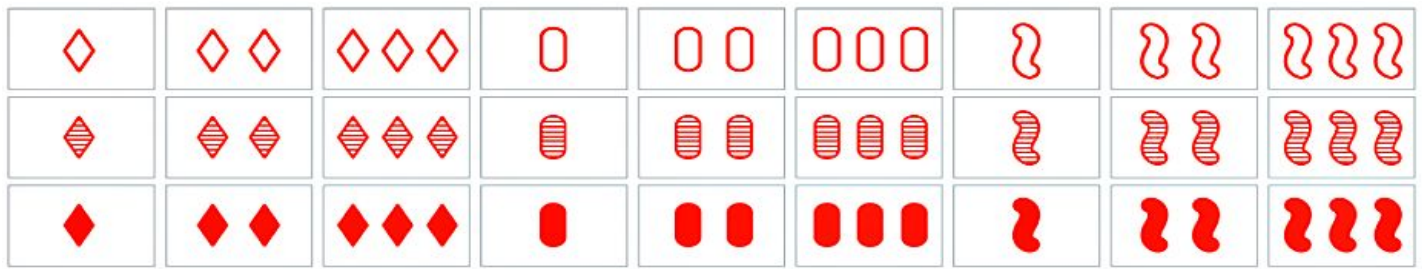
SET game.

Let us look at all the cards we have in SET game. First, we have 27 cards of the same color. How can we split them into 3 groups by some property?

By shape (symbol) - Each card has ovals, squiggles, or diamonds on it;

By number - Each card has one, two, or three symbols on it;

By shading - The symbols are solid, striped or open.



We also have the same group of cards in green and purple, so we also can split them by colors.

There are 81 cards in total! Let us now find out what the game is about:

A *SET* includes three cards with common features: shape, color, shade or number of symbols. However, three completely different cards also can comprise a *SET* -- their common feature being that they have nothing in common.

For example, **the following are 'Sets':**

*All three cards are **red**; all are **ovals**; all have **two symbols**; and all have different **shadings**.*



*All have different **colors**; all have different **symbols**; all have different **numbers of symbols**; and all have the same **shading**.*



*All have different **colors**; all have different **symbols**; all have different **numbers of symbols**, and all have different **shadings**.*



The following are NOT 'Sets':

*All have different **colors**; all are **diamonds**; all have **one symbol**; however, two are **open** and one is **not**.*



*All are **squiggles**; all have different **shadings**; all have **two symbols**; however, two are **red** and one is **not**.*



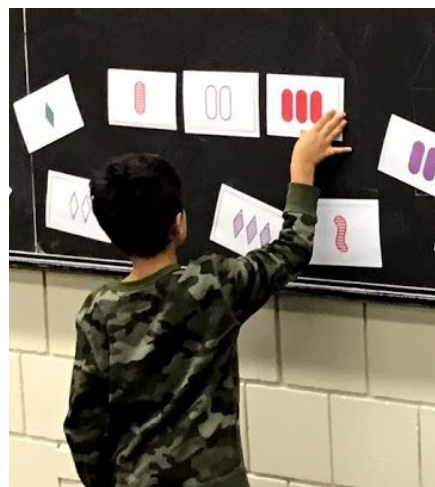
Let us practice now:

SET?



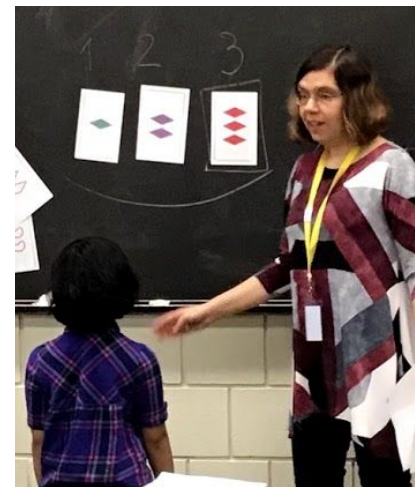
NO!

SET?

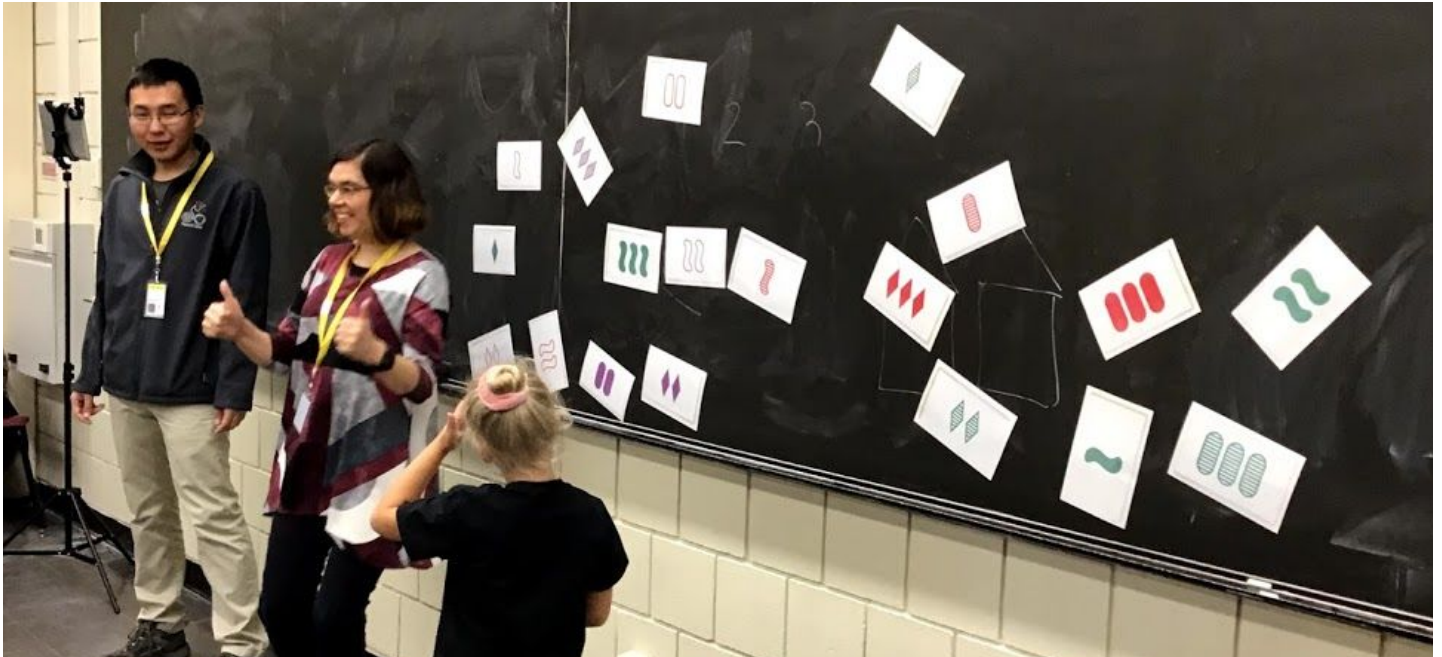


YES!

SET?

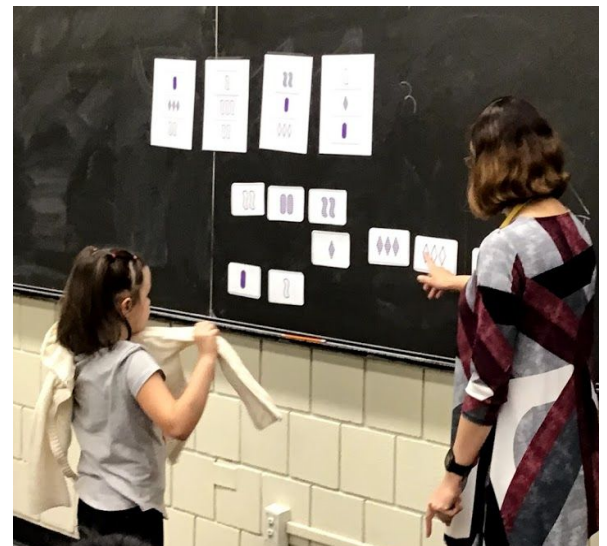
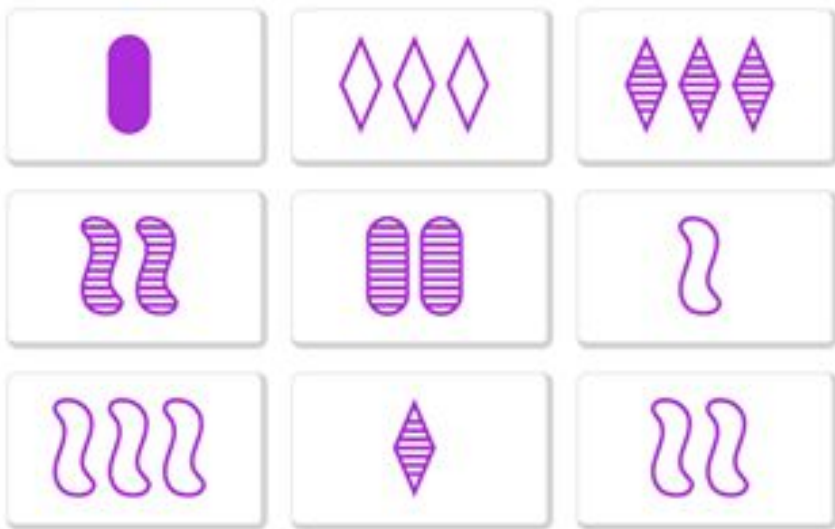


YES!

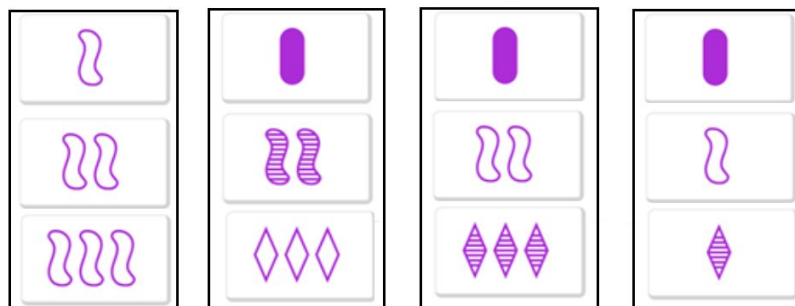


Now it is time to practice the real SET game! In this SET we have only 3 different properties (shape, number and shading).

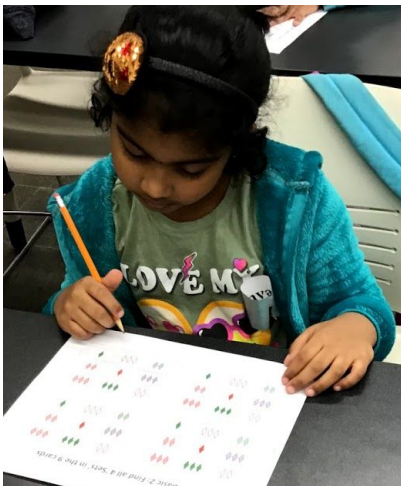
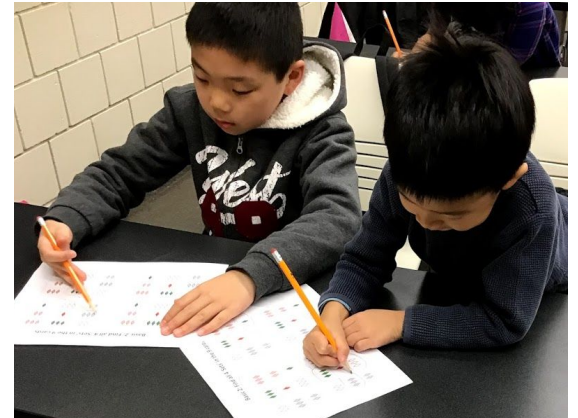
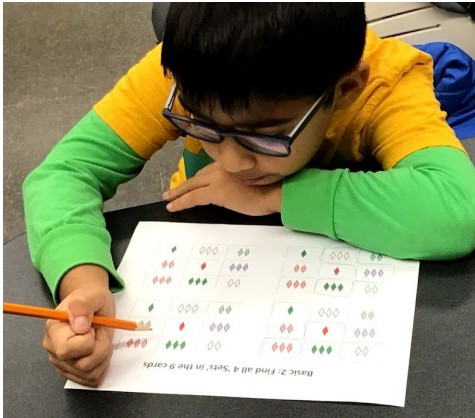
To pick up a set of 3 cards from the 9 on the field, we have to have some properties the same for all cards and the rest of properties different for all cards. For example, for the 9 cards below:



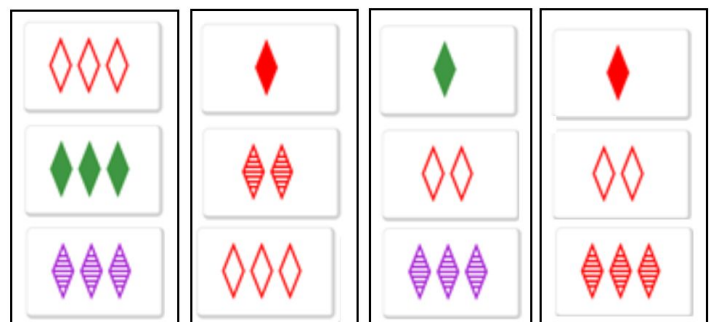
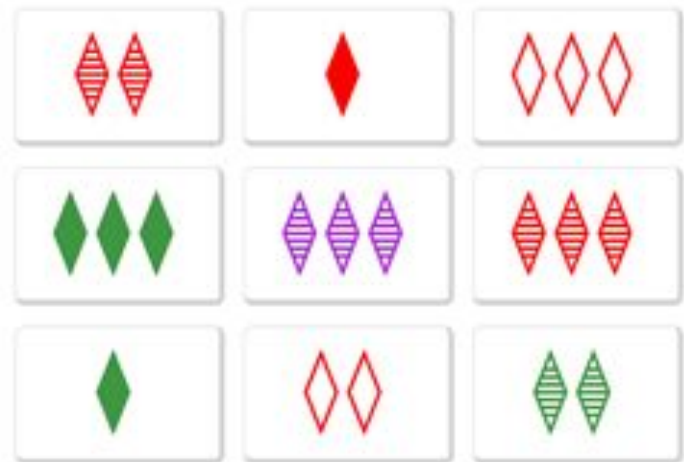
We have here all four SETs:



Now we know how to play! Let us find another 4 SETs on our own and then we will check it on the board. Everyone has four copy of the same SET game to find and mark all 4 SETs on it. Everyone is busy looking for SETs.



First SET found! Now we need 3 more!



See you next week!