

MATHEMATICS



Fractions

HOW TO CREATE YOUR ELEMENTS

Disclaimer: One of the sequences asks you to paint the elements with your pupils. Make sure to use non-toxic paint!

STORAGE

To store the “cake leaflet” with the tokens to paint, it will be necessary to adapt the box size to the size of the leaflet. If you used an A4 paper sheet, a shoebox could be enough. If you used a bigger size paper sheet, you should choose a bigger box or store the leaflet in another place or in an envelope you keep aside the small box with the tokens.

CRAFT THE ELEMENTS

A. Create the elements to symbolize the fraction theory

The cheapest version would be to cut little squares on a sheet of paper or cardboard, but those ways would not be very sustainable. If you have access to some basic tools, you can use a saw to cut little pieces of a wooden bar, and use abrasive paper to clean the pieces and be sure that there are no splinters left. You can also find pack of wooden cubes to buy on the internet.

After the activity, you should harmonize the tokens for the next time you will use them. The fastest process would be to use spray paint.



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B. Create the cake

1. Print the annex document on a heavy paper sheet, A4 or A3, regarding the size of your group (at least 200g)
2. Cut the cake figures
3. Glue the figures one after the other, the left side on the previous figure and the right side on the next.

ALTERNATIVES

A. More sustainable tokens

You could use plastic or resin tokens and clean them with chemical products. It will avoid multiple paint layers design problems on your token, the process is not environmentally friendly.

B. Design tokens

If you have access to a 3D printer or laser cutting machine, you could find (or create) original design tokens for your pupils to play paint on. Finding 1 design per batch of fractions could improve your pupils understanding.



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