**Making Picture Frames: 2 DIFFERENT FRAMES**

|  |  |  |  |
| --- | --- | --- | --- |
| https://lh6.googleusercontent.com/Zu06Rc2i785JHUN4BnydkQ9WM5YbpKp0TJ6WySByQSfTb75uNphrrNeouy31Bho53hflec8rT3AYWd6brhyPEfeg5KmyDtnkCq2RSdo9KrjmeDjlBuOPQv13VCT9plNNLmRvoIiQaW-xvEAbgQ | https://lh4.googleusercontent.com/3lZDCVGKSKjbnfwnGYpaXwQ880PbagWoKha92k_5unViK6pyK51PkId8OmGhPkU68rj54S8OEXe926niyP3C99oa0_s8XeHc2-XAOtWbG2QYeqol2_Qs9S3IwiRSvsJdxxNATyQAGd6Fi4nBqg | https://lh4.googleusercontent.com/eIGG5qmKI6NsTOgNL4L812iDUKEXPDWHxnDIynipL4vzSb7hy-dq0eELlFpiqNglgS8qOzShkd6BaK9mPNK8oPElonRwCc6WjVnlg_aEs8A24bwKzL98X8QNcM2tptDCXgMMc-3K8fjt47owYA | https://lh5.googleusercontent.com/xBkRQA5_-ycsAK83vcwG37T-SSXEW8wJULGEDF5Ygqh6hwKLuJOxwfj2-UgijL6KwzxakQBugejMDbjNml8nBIbGGllf-CzIVh-JAi5GvJs_6iVyQehLzYsL9swsjQumoE6l-R1cGF9oFs-gmA |

**Sketch your Picture Frame Designs:**

|  |  |
| --- | --- |
| **Frame #1** | **Frame #2** |
|  |  |

1. How many **popsicle sticks** do you need to make **1 of each frame?**

|  |  |  |  |
| --- | --- | --- | --- |
| **Frame #1** | | **Frame #2** | |
| Number of  Jumbo Sticks | Number of  Multi-Color Sticks | Number of  Jumbo Sticks | Number of  Multi-Color Sticks |
|  |  |  |  |

2. What **other materials** do you need to make **1 of each frame?**

How many magnets? How many rubber bands? How much ribbon?

|  |  |
| --- | --- |
| **Frame #1** | **Frame #2** |
|  |  |

**Making Picture Frames: A CLASS DISPLAY**

|  |  |
| --- | --- |
| https://lh6.googleusercontent.com/ymkHp2cmVZT-75_hyn796gsAyHgTfVW4urHr8jyjvlM-9up1PuqAdWUK_l53wqAR9dEivbknQhbYUf-rAN7ZFgqAXYeFfbn0kU0OGjPqV0gdJOvOJaLh7cmFYmYMTbxBQ-aKAenJdaD79lMMGQ  **PLAIN JUMBO STICKS**  **60 PER PACKAGE** | https://lh6.googleusercontent.com/CDIqfbVsvuD2cTRzetyVqLLeKUZmL_ZA1O0XXbdymcnCi1l3Hc9FzlsmqwK96Ube5EcPIMsyQQS2nzHaSDZT2wJSS3uTdELlQ8EBMwdtj1KsKv7NzvoGOhu3haoBeyxSjj9aAdDkltQ  **MULTICOLOR STICKS**  **100 PER PACKAGE** |

**How many packages of popsicle sticks** do you need so that every student in your class can make at least one picture frame (using your designs) for the class display?

We want to have enough popsicle sticks, but not many leftovers.

**Your plan should explain:**

* your assumptions and decisions
* which frames the class should make
* how many of each frame the class should make
* the number of packages of each type of popsicle stick needed for all the frames
* how many popsicle sticks you will have leftover
* how much of other materials needed to make all the frames

**Use pictures, numbers, equations and words** to show that your plan will work.

**FRAME #1: \_\_\_\_\_\_\_\_\_\_\_\_\_**

**How many of this frame will you make? \_\_\_\_\_\_\_\_\_\_**

|  |  |  |
| --- | --- | --- |
|  | How many sticks for one frame? | How many sticks for all the frames? |
| Plain Jumbo Sticks |  |  |
| Multi-Color  Sticks |  |  |
| Other Materials | How much / how many for one frame? | How much / how many for all the frames? |
|  |  |

**FRAME #2: \_\_\_\_\_\_\_\_\_\_\_\_\_**

**How many of this frame will you make? \_\_\_\_\_\_\_\_\_\_**

|  |  |  |
| --- | --- | --- |
|  | How many sticks for one frame? | How many sticks for all the frames? |
| Plain Jumbo Sticks |  |  |
| Multi-Color  Sticks |  |  |
| Other Materials | How much / how many for one frame? | How much / how many for all the frame? |
|  |  |

**How many packages of Plain Jumbo Sticks do we need for all the frames in your plan? How many leftover plain jumbo sticks we will have?**

**How many packages of Multi-Color Sticks do we need for all the frames in your plan? How many leftover multi-color sticks we will have?**

**How much of OTHER MATERIALS do we need for all the frames in your plan? How much leftover we will have?**