

## DISCLAIMER!

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# Using Rekenreks to Build Missing Addends



### Strategies toward achievement of:

MGSEK.OA.1 Represent addition and subtraction with objects, fingers, mental images, drawings, sounds (e.g., claps), acting out situations, verbal explanations, expressions, or equations.

MGSEK.OA.3 Decompose numbers less than or equal to 10 into pairs in more than one way, e.g., by using objects or drawings, and record each decomposition by a drawing or equation. (drawings need not include an equation).

**Using Rekenreks to Build Missing Addends-** In this activity, Kindergarten students will construct their own rekenrek and then work with partners to build missing addends.

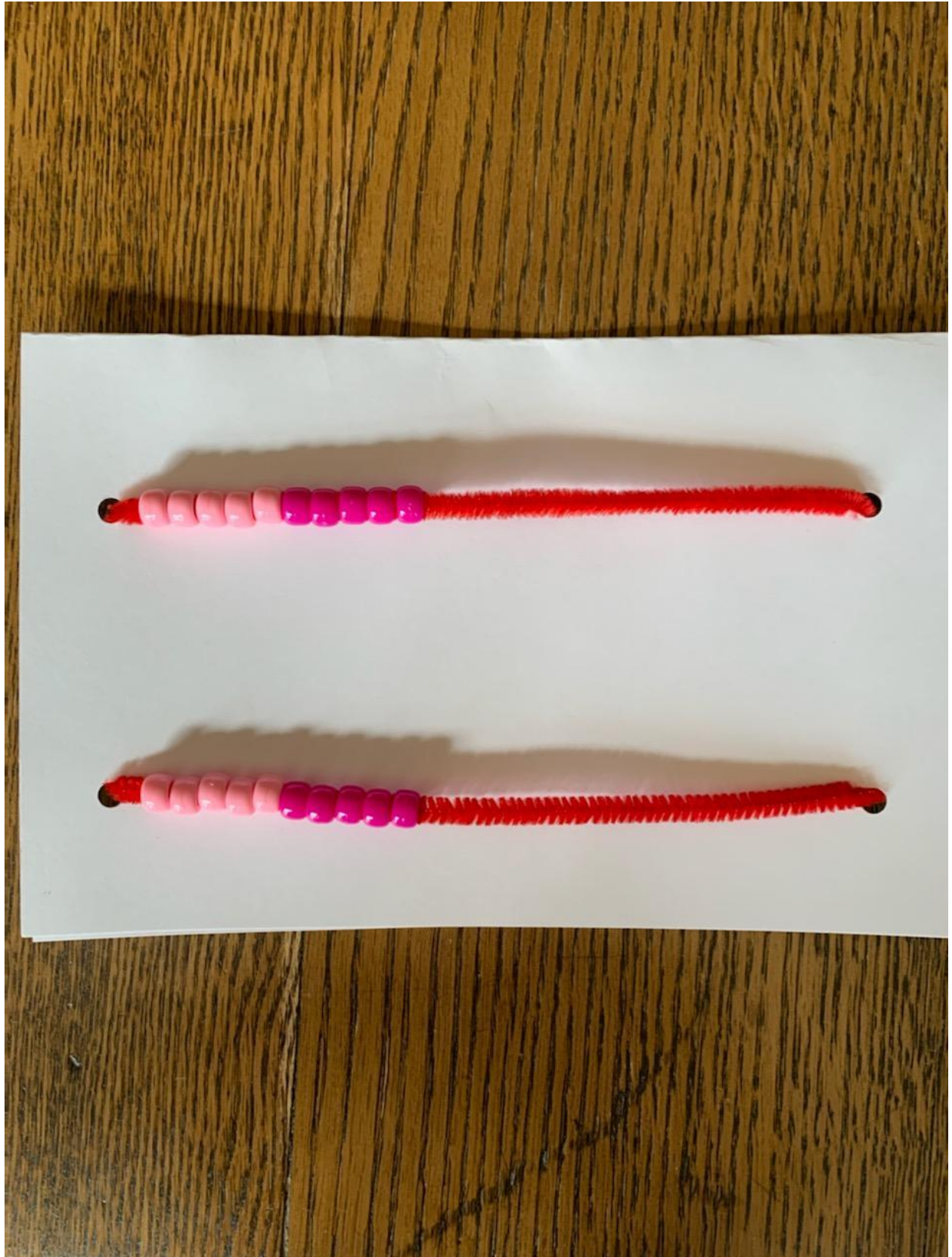
### **Materials Needed**

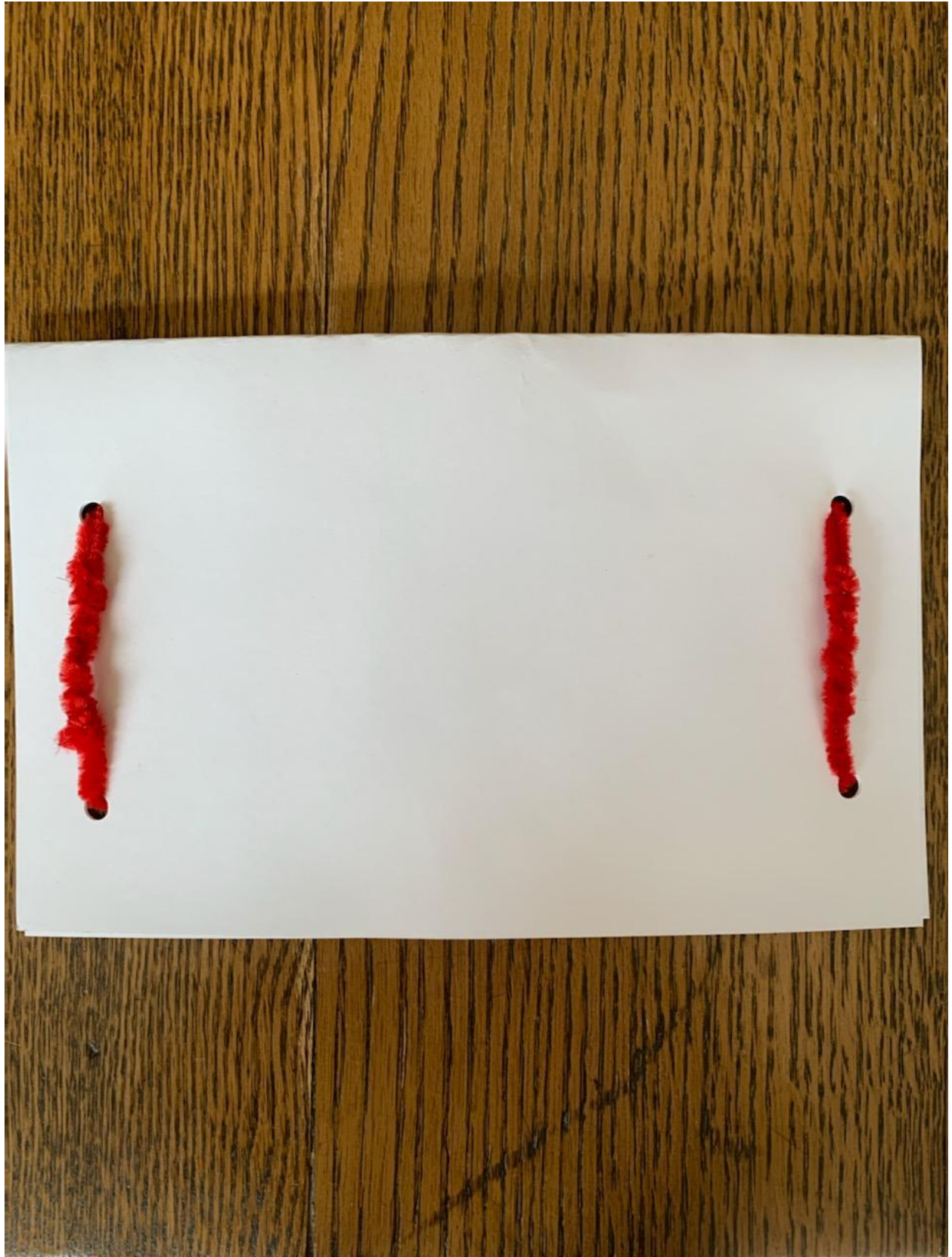
- One index card per student
- 20 craft beads per student
- two pipe cleaners per student
- single hole punchers
- recording sheet

### **Activity**

Students will construct their own individual rekenrek using an index card, two pipe cleaners, 10 beads of one color, and 10 beads of another color. The teacher will need to punch the index card with 4 holes. Students will thread the two pipe cleaners through the front two left holes and twist the back sides of the pipe cleaners together. Students will then string their beads onto the pipe cleaners as indicated in the picture below. Next, they will string the other end of the pipe cleaners through the remaining two holes and twist the back sides together. (Please reference the picture.) Once students have constructed their rekenreks they can begin the activity.

Students will get into partner groups (partner 1 and partner 2). Partner 1 shows partner 2 a number on his/her rekenrek and tells partner 2 what the sum of the two numbers should be. Partner 2 pulls over the beads on his/her rekenrek to make the correct sum. Partner 1 then checks to see if partner 2 pulled over the correct number of beads. If correct, both partners record the number sentence on the recording sheet and then swap roles. There are many possibilities as to how the partner groups make their sums. For example, they could record: top beads + bottom beads = sum, or one-color beads + another color beads = sum.





# Building Missing Addends

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|  | + |  | = |  |
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## References