

OMAHA AREA MATH TEACHERS' CIRCLE

One of Nebraska's many MTCs, which formed in 2010

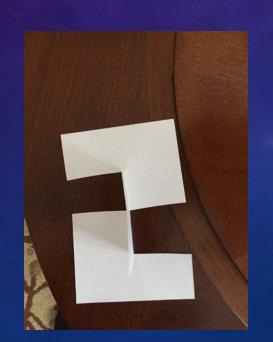
Three meetings per semester

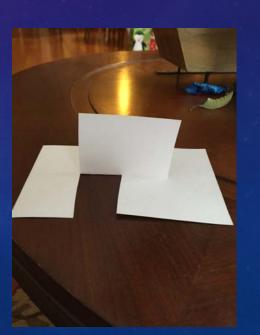
- Main target is middle school teachers
- Several pre-service teachers participate.

SAMPLE PROBLEM:

- The task is to make an index card look like the pictures below.
- You are allowed to use only scissors and a ruler. (We will tear).



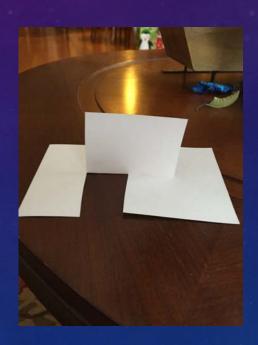




TRY THIS WITH TEARING AND FOLDING



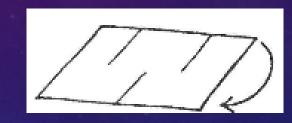




•Share your strategies!

SAMPLE PROBLEM: REVERSE ENGINEERING AN INDEX CARD

• First cut the index card as shown to the right.



- Second pull the tab in the middle straight up.
- Third hold the left side of the index card (Don't let this side rotate).

Forth flip the right side of the card 180 degrees.

SAMPLE PROBLEM: ONE THROUGH EIGHT BOOKLET

 The goal of this problem is to arrange the numbers into a booklet where the front page is one, the second page has a two and so on. The back page will have an eight.

You aren't allowed to cut this one.

2	1
3	8
6	7
5	4

SOLUTION TO PAPER FOLDING

 https://www.youtube.com/watch?v=hyUerNfX44E#t=21.3 7076725

OTHER PROBLEMS TO TRY IN YOUR CIRCLE

PROBLEM: WALKING THROUGH PAPER

On a standard 8 ½ in by 11 in piece of paper, find a way to cut the paper so you can walk through it (literally).

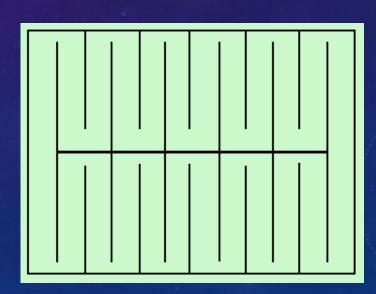
You are allowed to use scissors and allowed to fold the paper

• The paper must remain in one piece and it must be a continuous piece.

SOLUTION PROBLEM WALKING THROUGH PAPER:

- Make these cuts on a piece of paper.
 - It may be faster to first fold the paper.

Open the the paper up (will form a ring).



PROBLEM: MAKING A CUBE

 In this problem you will have a piece of paper whose front and back are different colors. The goal is make a cube of only one color on the six sides.

You may only cut or fold along the lines.

SOLUTION PROBLEM: MAKING A CUBE

 The answer is shown to the right. Note that in this solution the middle section was cut out.

