

Homework#7

Problem 1.

Find a pattern and add next picture:

What doesn't belong here and why? There might be more than one answer.
(Parents, please DO help to write the reasoning)



Problem 2.

Billy and Greta visited math village. In that village sum of the numbers on each floor should match the number on the roof. Fill in the missing numbers. Draw a path that Billy and Greta chose if you know that houses 2-4-6-8 were on the left and 3-5-7-9 were on the right. (order doesn't matter, it is about even-odd)

The maze contains the following houses with their roof numbers and floor numbers:

- House 1: Roof 3, Floor 1: 1, Floor 2: 2
- House 2: Roof 8, Floor 1: 3, Floor 2: 6, Floor 3: 4, Floor 4: 2, Floor 5: 1, Floor 6: 5, Floor 7: 7
- House 3: Roof 5, Floor 1: 1, Floor 2: 2, Floor 3: 4, Floor 4: 3
- House 4: Roof 6, Floor 1: 2, Floor 2: 1, Floor 3: 4, Floor 4: 3, Floor 5: 5
- House 5: Roof 2, Floor 1: 1
- House 6: Roof 4, Floor 1: 1, Floor 2: 3, Floor 3: 2
- House 7: Roof 9, Floor 1: 1, Floor 2: 7, Floor 3: 4, Floor 4: 2, Floor 5: 6, Floor 6: 5, Floor 7: 8, Floor 8: 6
- House 8: Roof 7, Floor 1: 3, Floor 2: 2, Floor 3: 6, Floor 4: 3, Floor 5: 2, Floor 6: 6

The path drawn in green starts from two children at the top, goes down to the house with roof 3, then right to the house with roof 5, then down to the house with roof 6, then right to the house with roof 8, and finally down to the house with roof 2.

Problem 3.

Mary prepared some snacks for the family. Guess who will choose which plate if only Greta has something yellow on the plate, Mary has something orange on the plate, Billy wants an apple, and David can take any plate.



Solve the problems and write a solution.

Apple tree has 8 apples. Billy picked 5 apples.
How many apples are still on the tree?

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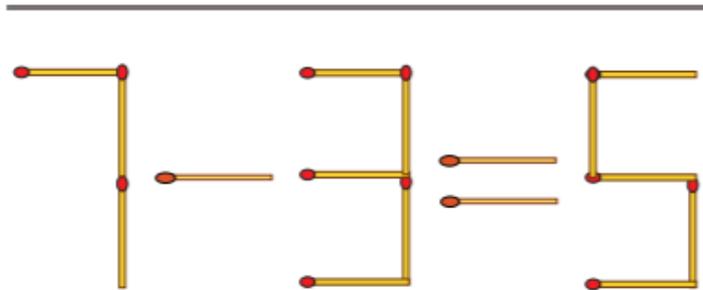
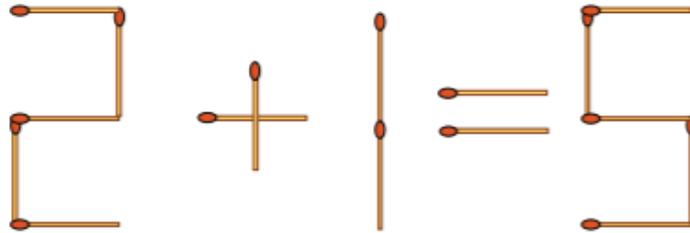
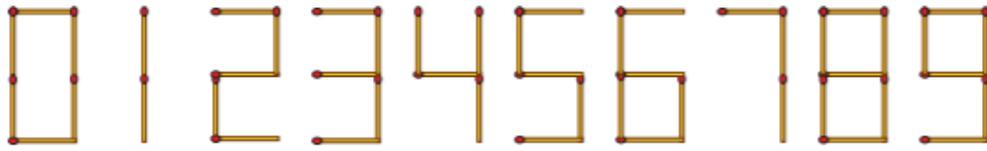
Greta, Billy, and Anna went to ice-skating. Two kids were wearing hats and one kid a scarf. Greta and Anna were wearing different things so were Billy and Greta.

What was each kid wearing?



Problem 4.

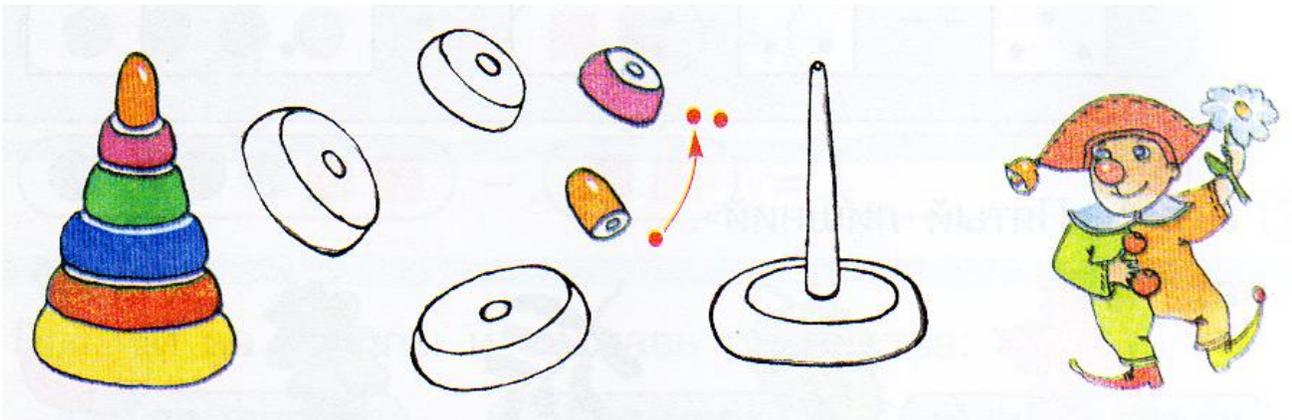
Move 1 match to make it true expression



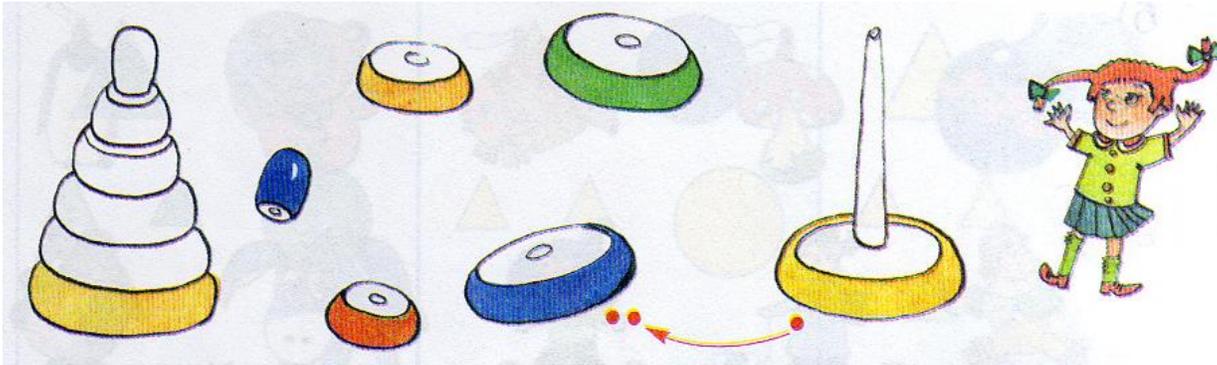
Use toothpicks or matches to create another correct expression, move one match to make it incorrect, draw the "problem" below

Problem 5.

Color the rings and connect them from top to bottom

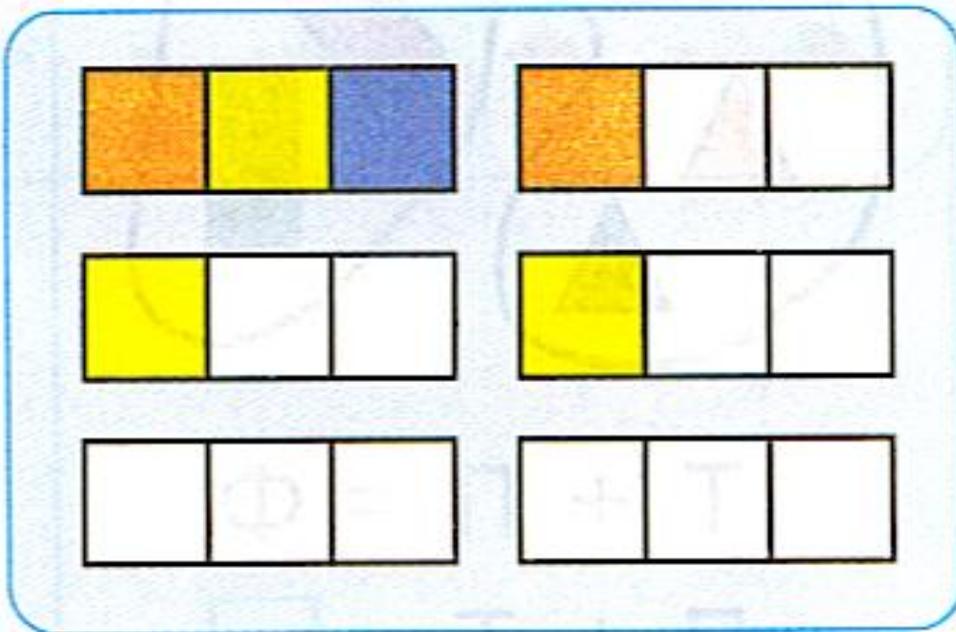


Connect the rings from bottom to top and color them



Problem 6.

Color the picture in different colors so the patterns won't repeat.



Problem 7

Color triangles that are to the left of the circle – red, and to the right – green:

