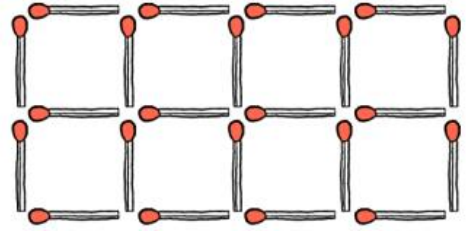


Worksheet #38

1. Is it possible to remove 5 matchsticks to create 4 squares?

Note: There should be no 'dangling matchstick'. In other words, both ends of every matchstick must touch another matchstick.



2. There are three people, one of whom is a cop, one a crook, and one a spy. The cop always tells the truth, the crook always lies, and the spy can either lie or tell the truth.

Aroon says: "Coomar is a crook."

Boomi says: "Aroon is a cop."

Coomar says: "I am the spy."

Who is the cop, who is the crook, and who is the spy?

3. Solve this KenKen puzzle keeping in mind the following rules:

- Every row and every column contains every digit 1 through 5 exactly once, and
- Every region completes its stated value.

20×		3−		24×
	6+			
10+		1−		
	8+		10+	
	2÷		3	

4. How many three-digit positive integers are divisible by both 12 and 20, but are not divisible by 16?

5. According to the following scales, which of the following will balance three diamonds?

- 1 circle
- 1 square and 1 circle
- 1 square
- 2 squares

