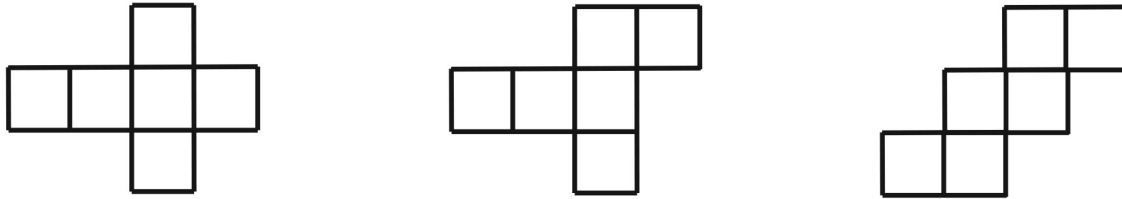
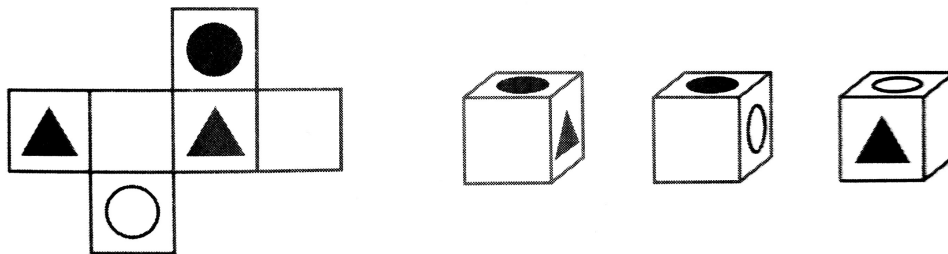


Problem set 3 (Assigned on October 3rd)

1. Which of these shapes are cube nets (that is, can be folded into cubes)?

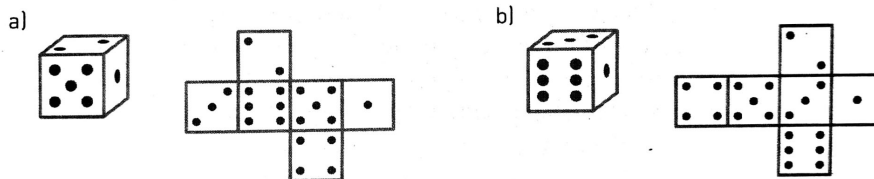


2. Which of the cubes below could have been folded from the cube net sketched on the left?



3. In the figure you can see two dice and their 2D nets. Which number is on the:

- Bottom face of each die?
- Rear (hidden) face of each die?
- Left (hidden) face of each die?



4. Is it possible to cut a square into 10 smaller squares (not necessarily of equal size)? If so, show how. If not, explain why. (Squares that are subdivided into smaller ones don't count.)

Can you answer the same question for 11 squares?