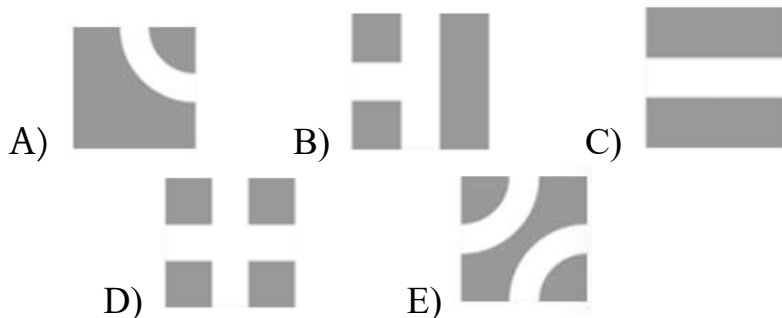## Grade 3

Problem №1.

In the picture on the right you see a map. In the middle a piece is missing. The cat should be able to reach the milk, and the mouse the cheese, but the cat and the mouse must not meet each other. What should be the piece in the middle look like?
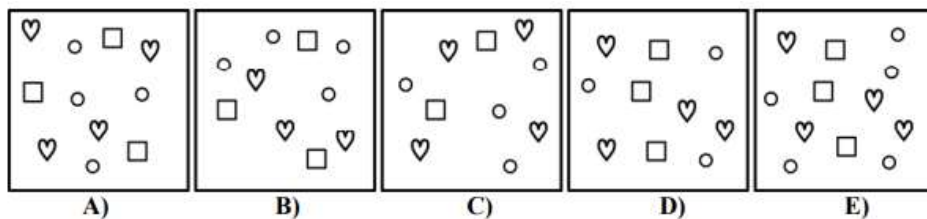

A)   B)   C)

D)   E)

Problem №2.

A 40-minute long lesson began at 11:50 hours. Exactly in the middle of the lesson, a bird flew onto the classroom. At what time did this happen?

A) 11:30   B) 12:00   C) 12:10   D) 12:20   E) 12:30

Problem №3.

Which square contains 3 quadrilaterals, 3 circles and 4 hearts?

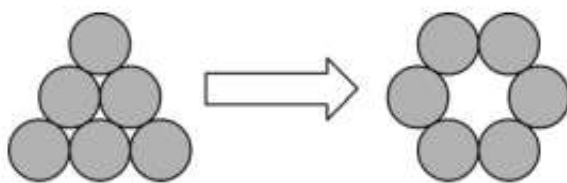|				
A)	B)	C)	D)	E)

Problem №4.

In a café the soup costs €4, the main course €9 and the dessert €5. The three courses when ordered together cost €15. How many Euro's cheaper is this, than ordering the same three courses separately?

A) €3   B) €4   C) €5   D) €6   E) €7

Problem №5.

Six coins build a triangle (see picture). What is the smallest number of coins that must be moved to create the circle?
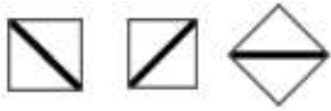

A) 1   B) 2   C) 3   D) 4   E) 5

Problem №6.

Four friend each eat some ice-cream. Mike eats more than Franz, Jaroslav eats more than Viet and Jaroslav eats less than Franz. Put the friends in order according to how much icecream they have eaten. Begin with the largest amount.

A) Mike, Jaroslav, Viet, Franz   B) Viet, Mike, Franz, Jaroslav

C) Mike, Franz, Jaroslav, Viet   D) Jaroslav, Viet, Mike, Franz

E) Jaroslav, Mike, Viet, Franz

Problem №7.

I have tiles that look like this…   Which pattern can I not create with them?
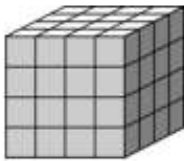
2

A)   B)   C)   D)   E)

Problem №8.

Matthias and Klara live in a tower block. Klara lives 12 floors above Matthias. One day Matthies climbs the staircase to visit Klara. When halfway he is on the 8th floor. On which floor does Klara live?

     A) 12th B) 14th C) 16th D) 20th E) 24th
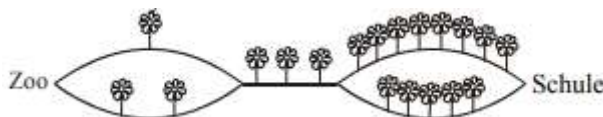
Problem №9.

A large cube is made from 64 small cubes. The 5 visible faces of the large cube are green, the bottom face is red. How many of the small cubes have 3 green faces?

     A) 4   B) 8   C) 16   D) 20   E) 24

Problem №10.

Kangi walks directly from the zoo to school (Schule) and counts the flowers along the way. Which of the following numbers can he not obtain this way?

     A) 9   B) 10   C) 11   D) 12   E) 13

3

Problem №11.

A ferry boat can transport in one journey, either 10 cars or 6 lorries. Yesterday the boat crossed the river 5 times. It was always fully loaded and transported a total of 42 vehicles. How many of these were cars?

    A) 10   B) 12   C) 20   D) 22   E) 30

Problem №12.

Hans began a chain-email. He sent an email to his friend Peter, who sent it on to more people. Each person that receives the email should send it to 2 more people. After 3 rounds 1+2+4=7 people have received the email. How many people have received the email after 5 rounds?

    A) 15   B) 16   C) 31   D) 33   E) 63