Canguro Matemático Costarricense
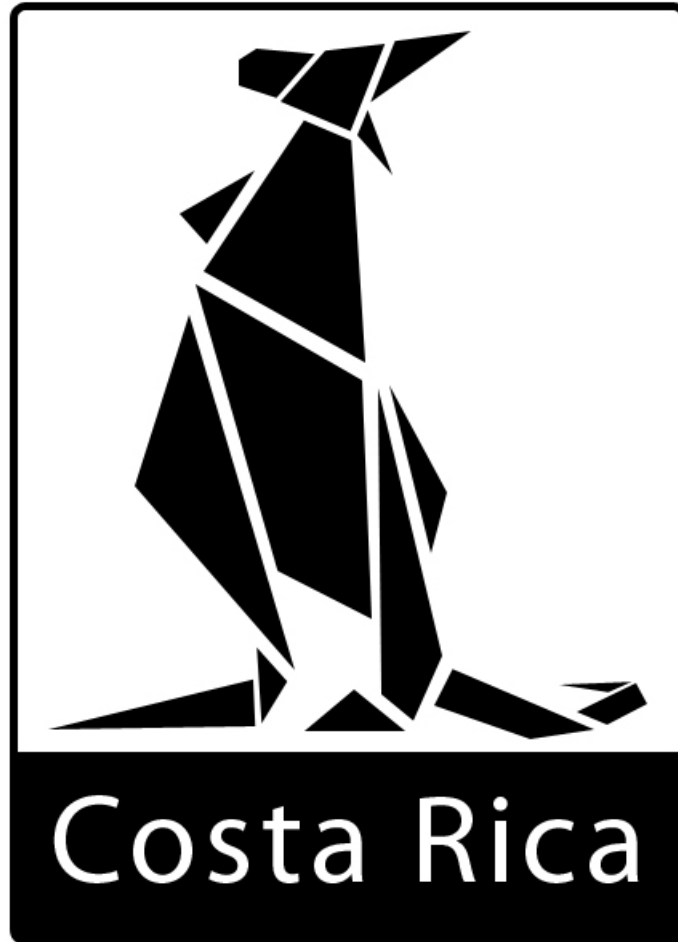

Costa Rica

PreEcolier Test
First grade

"It's kind of fun to do the impossible"
Walt Disney

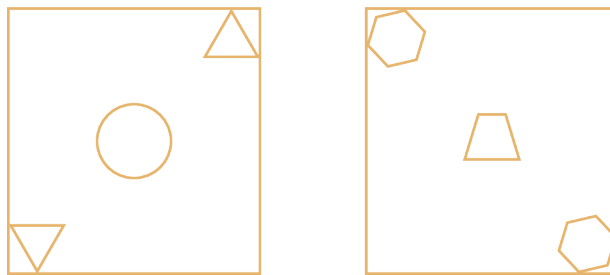Name of the student:_____

Name of the institution:_____

Kangourou Sans Frontières
Costa Rica 2024

3 points

1.
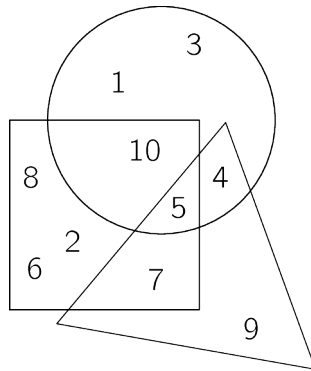
Which number is inside the triangle, the square and the circle?

(**A**) 1 (**B**) 4 (**C**) 5 (**D**) 9 (**E**) 12
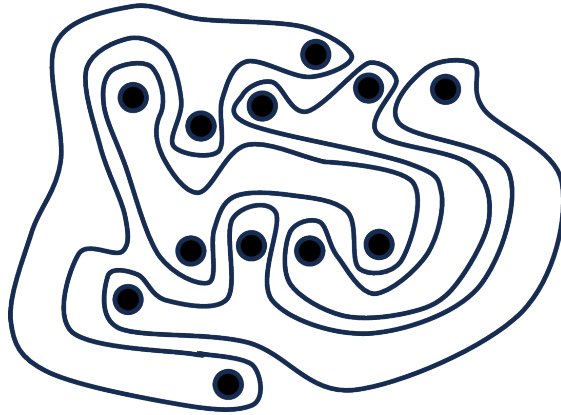
2. Some shapes are printed on 2 pieces of glass. Anna places one on top of the other, without turning either piece.
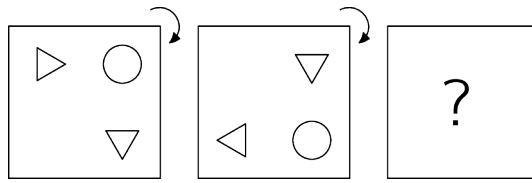

What does she see?

(**A**)   (**B**)   (**C**)

(**D**)   (**E**)

3. The picture shows 4 strange shapes.

How many shapes have 3 dots inside?

(**A**) 0   (**B**) 1   (**C**) 2   (**D**) 3   (**E**) 4

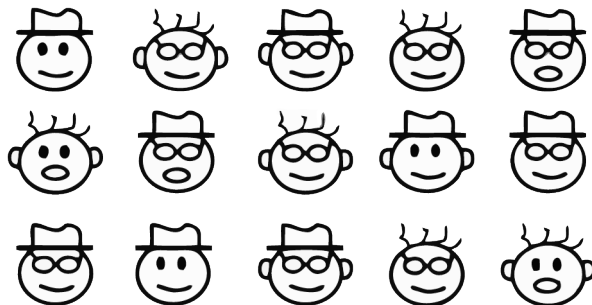**4.** Kevin the kangaroo puts a picture on the table.

He rotates the picture through a quarter turn, as shown. He then does the same rotation again. What does Kevin see now?
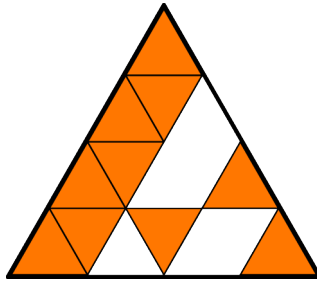

(**A**)   (**B**)   (**C**)   (**D**)   (**E**)

4 points

5. In the picture, there are 8 different faces.

Each face appears twice, except for one. Which face appears only once?

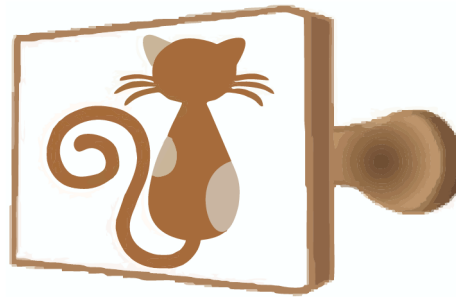(**A**)   (**B**)   (**C**)   (**D**)   (**E**)

6. Bruno is making this large triangle using identical small triangular tiles.

How many more tiles does Bruno need to complete the large triangle?

(**A**) 3   (**B**) 4   (**C**) 5   (**D**) 6   (**E**) 7

7. Elena uses the stamp shown to make a picture.

Which picture does she make?

(**A**)   (**B**)   (**C**)   (**D**)   (**E**)

8. A line of pictures is made by repeating this pattern of 5 pictures: 🌞 👻 🐱 🌙 🔥, always in the same order.

🌞 👻 🐱 🌙 🔥 🌞 👻 🐱 🌙 🔥 🌞 👻 🐱 🌙 🔥 ...

Which picture is in the 17th position in the line?

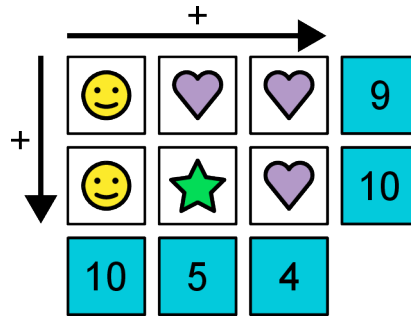(**A**) 🌞   (**B**) 👻   (**C**) 🐱   (**D**) 🌙   (**E**) 🔥

5 points

9. Esteban wants to pick two numbers from the board and add them together.
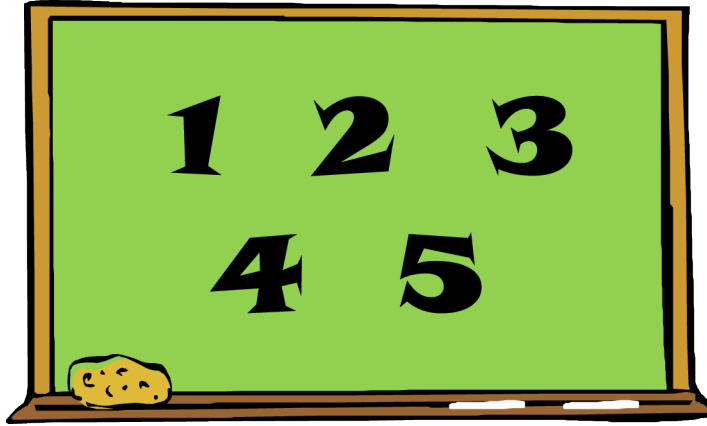
Which of the following results **could not** Esteban obtain?

(**A**) 5   (**B**) 6   (**C**) 7   (**D**) 8   (**E**) 10

10. In the following diagram, each shape represents a different value, same shapes represents same value.
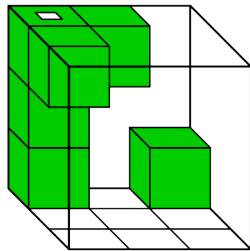

What is the value of ⭐ ?

(**A**) 2   (**B**) 3   (**C**) 4   (**D**) 5   (**E**) 6

11. Catrina wants to walk through the maze so that she visits only rooms where the answer to the sum is 7.

Which object can Catrina reach?

(A)   (B)   (C)   (D)   (E)

12. Chiara has a transparent box containing 6 small cubes, as shown.

What does Chiara see if she looks at the box from above?

(A)   (B)   (C)   (D)   (E)