

Canguro Matemático Costarricense



PreEcolier Test
Second grade

Name of the student:_____

Name of the institution:_____

Kangourou Sans Frontières
Costa Rica 2025

3 puntos

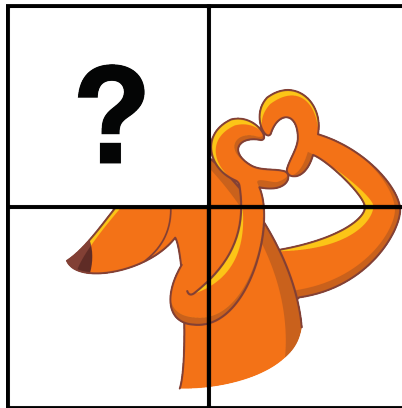
1. Pablo has 6 balloons. He gives away 2 of the balloons.



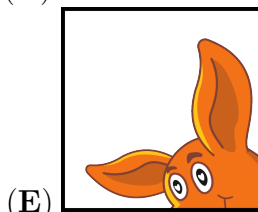
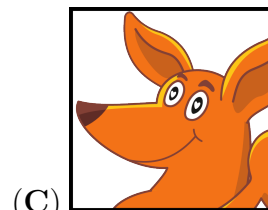
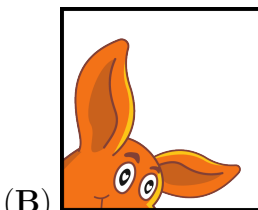
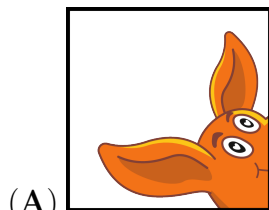
How many balloons will Pablo then have?

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

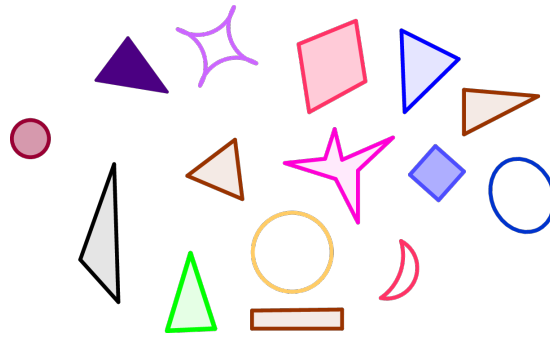
- 2.



Which of these puzzle pieces completes the picture?



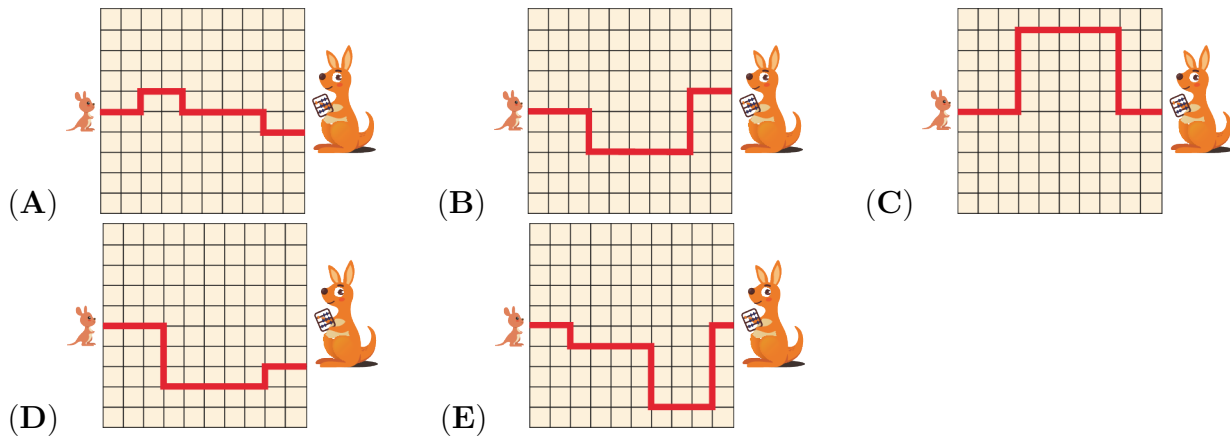
3.



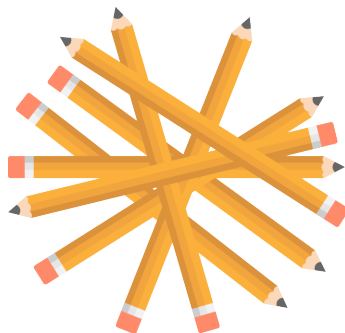
How many of the shapes shown are triangles?

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

4. 5 baby kangaroos are hopping to their mothers along the paths shown below. Which path is the shortest?



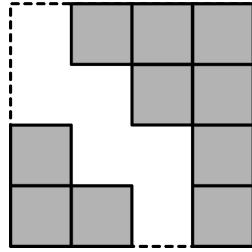
5.



How many pencils are shown in the picture?

- (A) 7 (B) 8 (C) 9 (D) 14 (E) 16

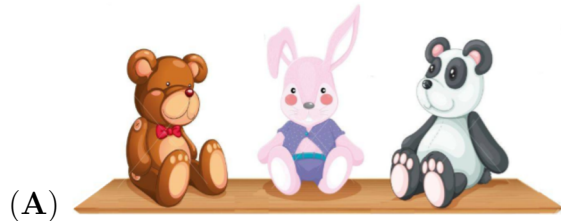
6. A large square is formed from 16 small squares of the same size. Then some of the small squares are removed.



How many small squares are missing?

- (A) 4 (B) 5 (C) 6 (D) 7 (E) 8

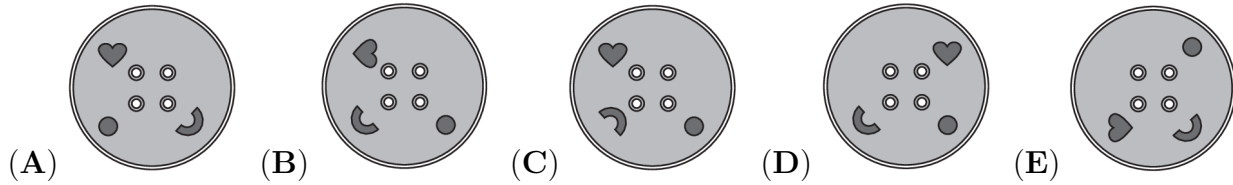
7. On Mateo's toy shelf, there are **no** turtles, **no** rabbits and **no** robots. Which of these shelves could be Mateo's shelf?



8. All the buttons on Carolina's sweater look like this:

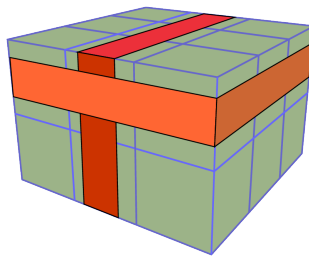


Which one of these buttons could be from her sweater?



4 puntos

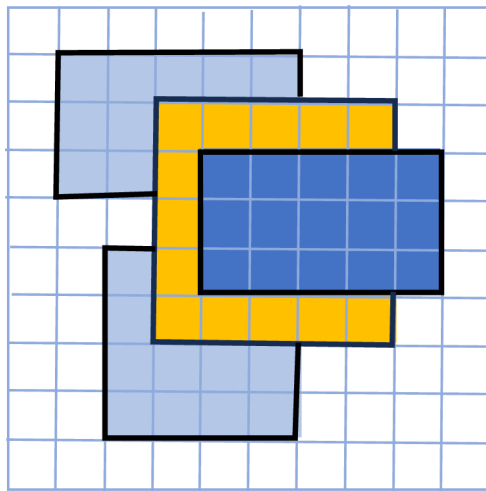
9. Two rubber bands are placed around a stack of 18 cubes.



How many of the cubes are not touching a rubber band?

- (A) 6 (B) 8 (C) 9 (D) 10 (E) 12

10. A floor is covered in square tiles. There are 4 rectangular mats on the floor.



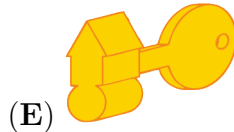
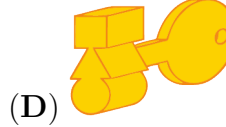
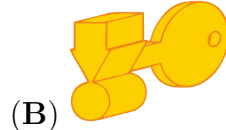
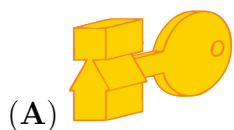
In total, how many tiles have 3 mats on top of them?

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

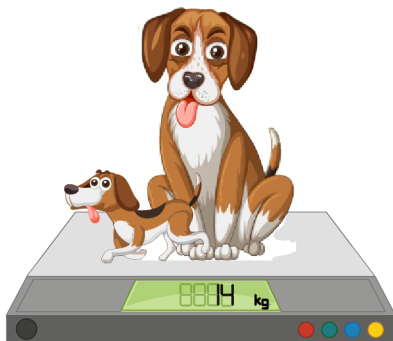
11.



Which of these keys fits the lock shown in the picture?



12. A dog has 2 puppies that weigh the same. The first picture shows that the dog and 1 puppy together weigh 14 Kg. The second picture shows that the dog and both puppies together weigh 18 Kg.



How much does the dog weigh?

- (A) 9 Kg (B) 10 Kg (C) 11 Kg (D) 12 Kg (E) 13 Kg

13. There were 12 pieces of fruit on the table. Vera removed 2 pears, 4 apples and half of the oranges. Now there are only oranges left on the table. How many oranges are left?

- (A) 1 (B) 2 (C) 3 (D) 4 (E) 6

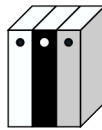
14. There are 12 students in a line. Counting from the left, Warren is fifth in the line. Counting from the right, Victor is fourth in the line.



How many students are between Warren and Victor?

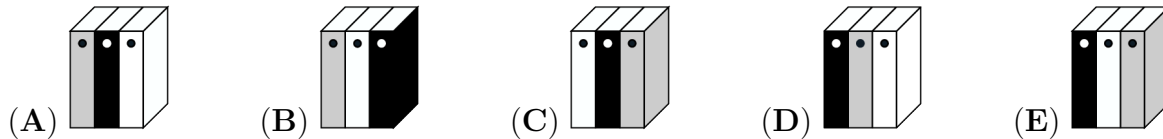
- (A) 1 (B) 2 (C) 3 (D) 4 (E) 5

15. There were three books on Mary's shelf, as shown in the picture.

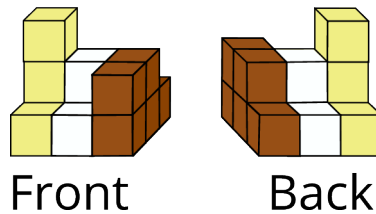


- First, Mary swapped the white book and the grey book.
- Then Mary swapped the grey book and the black book.

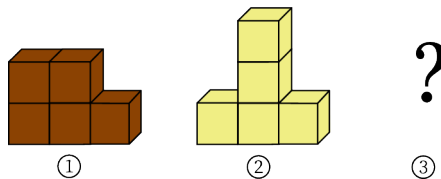
How are her books arranged now?



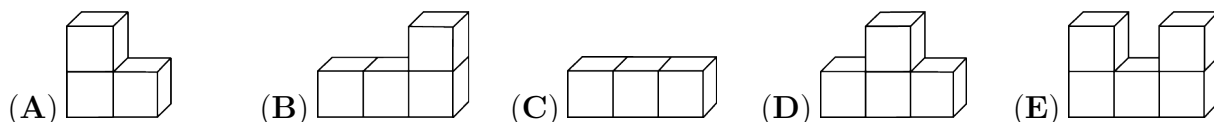
16. The pictures below show the front and back of an object built from coloured cubes.



The object is broken into three pieces. Two of the pieces are shown below.

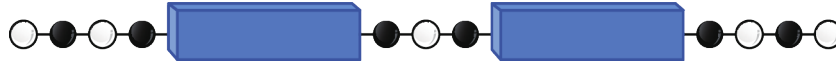


Which of these is the third piece?



5 puntos

17. The beads on a string alternate between black and white.



Each block hides five beads. How many white beads are hidden in total?

- (A) 5 (B) 6 (C) 7 (D) 9 (E) 10

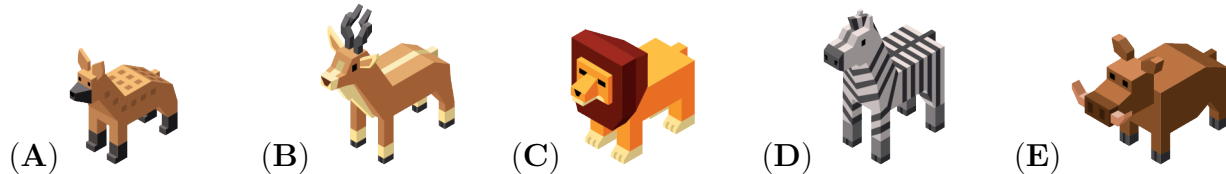
18. Ana buys 3 chocolate bars. Tomas buys 5 chocolate bars. Tomas paid 8 euro more than Ana. What is the cost of 1 chocolate bar?

- (A) 1 euro (B) 2 euro (C) 3 euro (D) 4 euro (E) 5 euro

19. Carlos has 5 wooden toys, as shown in the picture.



He picks 2 pairs of toys so that the pairs weigh the same. Which toy was not picked?



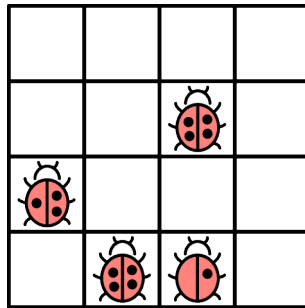
20. 3 years ago, the sum of Ana's age and Benardo's age was 6 years. Ana is currently 7 years old. How old is Benardo now?

- (A) 1 year (B) 5 years (C) 6 years (D) 7 years (E) 11 years

21. Each ladybird sticker has 1, 2, 3 or 4 dots.



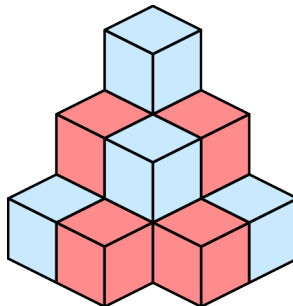
Amalia wants to fill the grid with stickers so that in each row and in each column there are ladybirds with different numbers of dots.



When Amalia is finished, what will the top row of the grid look like?

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

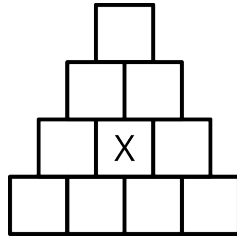
22. There are 13 cubes stacked in the corner of a room. Each is coloured red or blue. Directly below each red cube is a blue cube, and directly below each blue cube is a red cube.



How many blue cubes are in the stack?

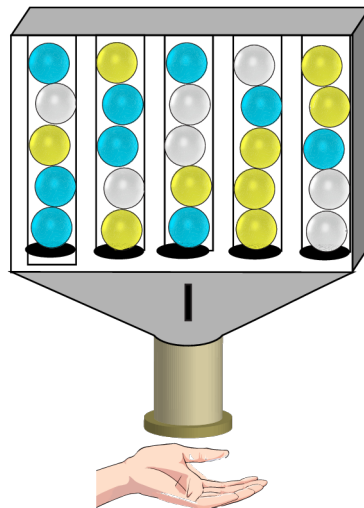
- (A) 4 (B) 6 (C) 7 (D) 8 (E) 9

- 23.** Ingrid decides to paint each square in the shape below so that squares painted the same colour do not touch.



She paints 4 squares red, 3 squares blue, 2 squares green and 1 square yellow.
Which colour did she paint the square marked with the X?

- (A) Red (B) Blue (C) Green (D) Yellow
(E) Impossible to know
- 24.** Each time a coin is put in the machine, a ball falls at random from the bottom row.



What is the smallest number of coins Marina must have to be sure that she will get a white ball?

- (A) 6 (B) 10 (C) 11 (D) 12 (E) 15