Canguro Matemático Costarricense

Ecolier Test
Third grade

Name of the student:_____

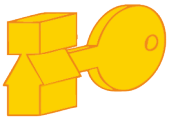
Name of the institution:_____

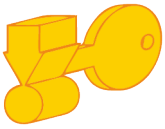
Kangourou Sans Frontières
Costa Rica 2025

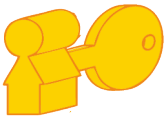
3 puntos

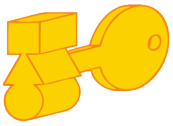
1.

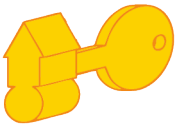
Which of these keys fits the lock shown in the picture?

(**A**) 

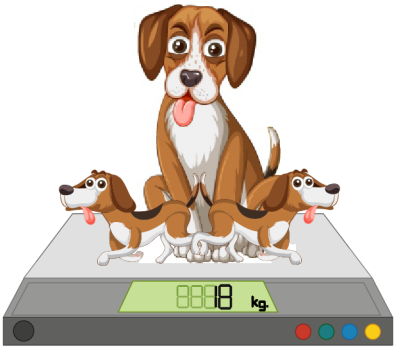
(**B**) 

(**C**) 

(**D**) 

(**E**) 

2. 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?

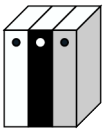
(**A**) 9 Kg (**B**) 10 Kg (**C**) 11 Kg (**D**) 12 Kg (**E**) 13 Kg

3. 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?

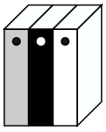
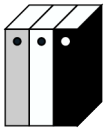
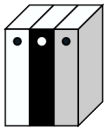
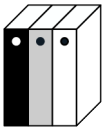
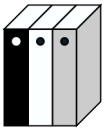
(**A**) 1 (**B**) 2 (**C**) 3 (**D**) 4 (**E**) 5

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

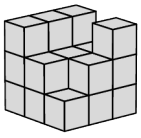
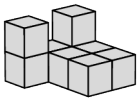
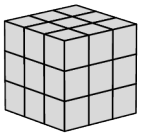
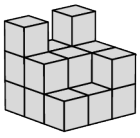


- First, Mary swapped the white book and the grey book.
- Then Mary swapped the grey book and the black book.

How are her books arranged now?

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

5. Mia is joining small cubes, adding one at a time, to build a $3 \times 3 \times 3$ cube. She took pictures at 5 different moments. What does Mia's fourth picture look like?

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

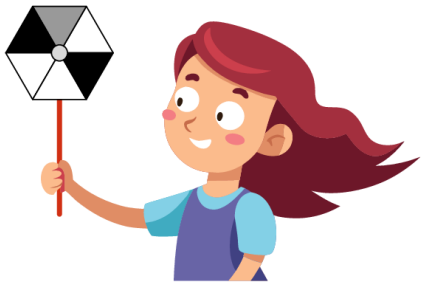
6. Simona writes the four digits 2, 0, 2, 5 in the four boxes.

$$\square + \square - \square + \square$$

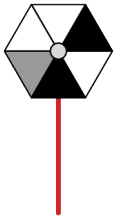
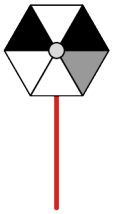
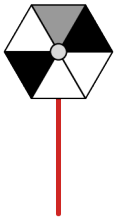
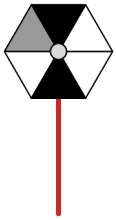
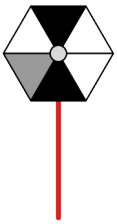
Which order would give her the largest result?

(**A**) 0, 2, 2, 5 (**B**) 0, 5, 2, 2 (**C**) 2, 5, 2, 0 (**D**) 5, 0, 2, 2 (**E**) 5, 2, 0, 2

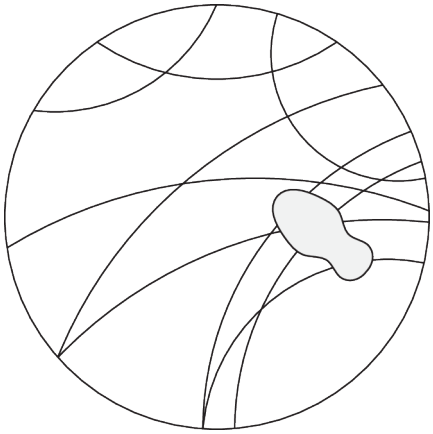
7. Larissa spins her sail.



Which of the sails below is hers?

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

8. Alex stepped on some tracks on the ground.



What is beneath her shoe?

(**A**) 

(**B**) 

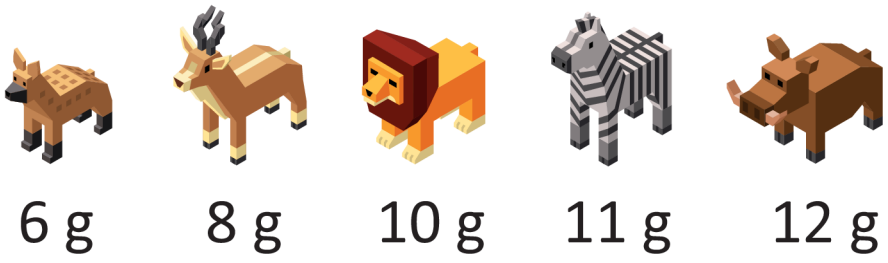
(**C**) 

(**D**) 

(**E**) 

4 puntos

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



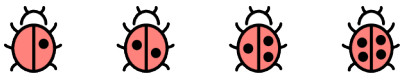
He picks 2 pairs of toys so that the pairs weigh the same. Which toy was not picked?

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

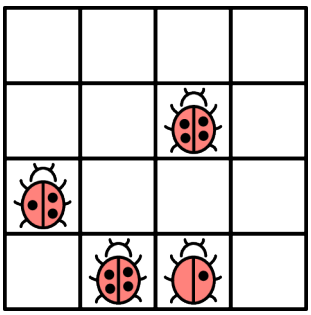
10. 3 years ago, the sum of Ana's age and Benardo's age was 6 years. Ana is currently 7 years old. How old is Benardo now?

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

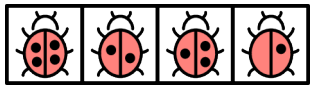
11. Each ladybird sticker has 1, 2, 3 or 4 dots.

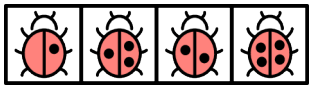


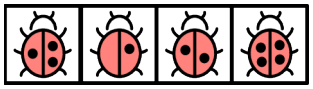
Amalia wants to fill the grid with stickers so that in each row and in each column there are ladybirds with different numbers of dots.

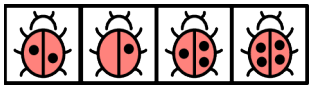


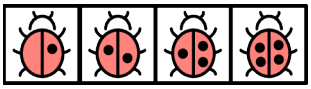
When Amalia is finished, what will the top row of the grid look like?

(**A**) 

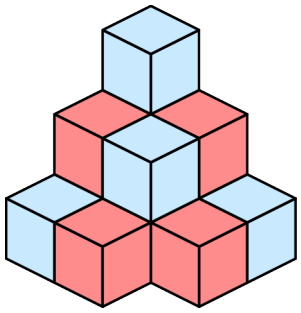
(**B**) 

(**C**) 

(**D**) 

(**E**) 

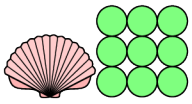
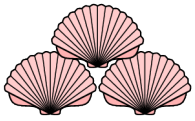
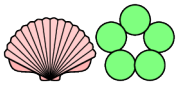
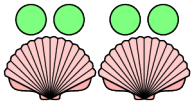
12. There are 13 cubes stacked in the corner of a room. Each is coloured red or blue. Directly below each red cube is a blue cube, and directly below each blue cube is a red cube.



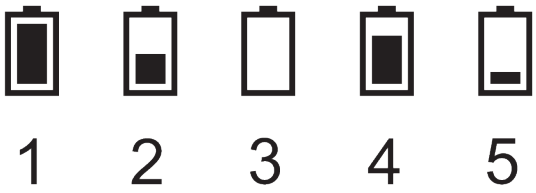
How many blue cubes are in the stack?

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

13. Nico and his little sister pay with shells and marbles in their playshop. Each shell has a value of 6 and each marble has a value of 1.
Which of the following has a total value of 16?

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

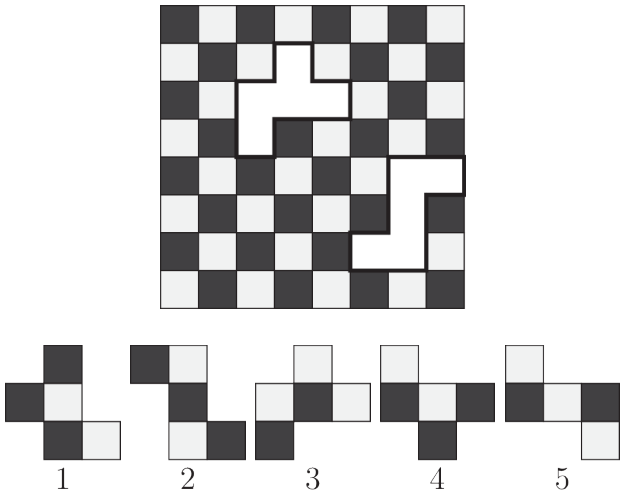
14. In the morning, 5 friends had identical fully-charged mobile phones. By the evening, Bob had spoken on the phone as much as Ann and Cristina together. Bob ran out of power. David had not used his phone at all.



Which phone belonged to Edward?

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

15.



Which two of the pieces shown below complete the chessboard?

(**A**) Pieces 1 and 2 (**B**) Pieces 1 and 5 (**C**) Pieces 3 and 4
(**D**) Pieces 3 and 5 (**E**) Pieces 4 and 5

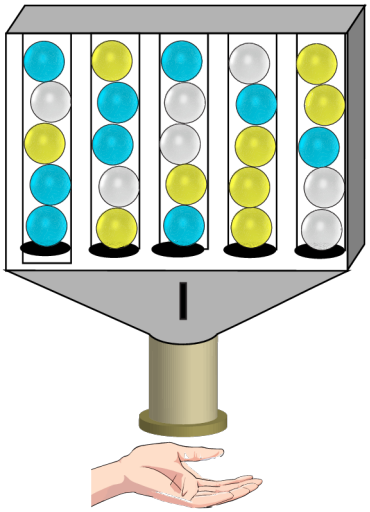
16. In the petting zoo, Renata feeds 6 sheep. She gives them a total of 210 grams of dry food for lunch. She gives the smallest sheep twice as much food as she gives to each of the others.

How much does the smallest sheep get?

(**A**) 55 grams (**B**) 60 grams (**C**) 70 grams (**D**) 75 grams (**E**) 80 grams

5 puntos

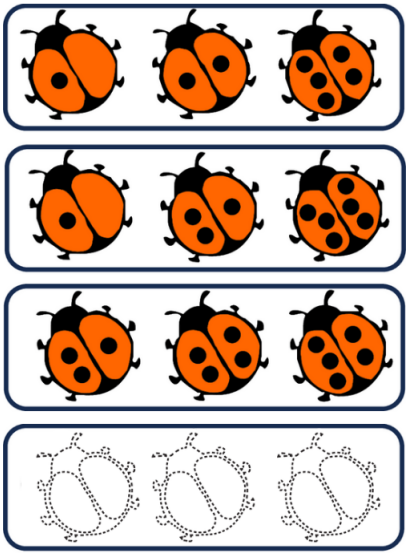
17. Each time a coin is put in the machine, a ball falls at random from the bottom row.



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

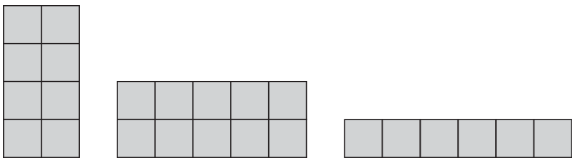
18. 6 ladybirds have 1, 2, 3, 4, 5 or 6 spots each. Marta took 4 photos of them in groups of 3. Each ladybird appeared the same number of times in the photos. 3 of the photos, along with the outline of the fourth photo, are shown here.



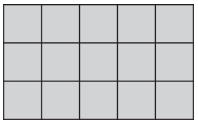
How many spots do the three ladybirds in Marta's fourth photo have in total?

(**A**) 9 (**B**) 10 (**C**) 11 (**D**) 12 (**E**) 23

19. Bob makes a square from 4 rectangular pieces. 3 of the pieces he uses are shown.



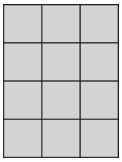
Which of the following is the fourth piece he uses?

(**A**) 

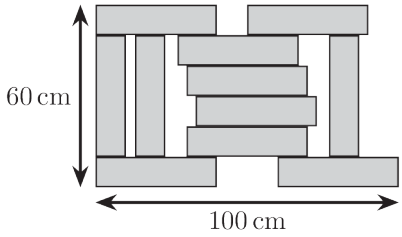
(**B**) 

(**C**) 

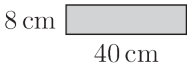
(**D**) 

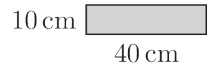
(**E**) 

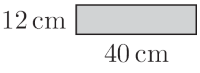
20. The construction uses 11 identical bricks. The construction has length 100 cm and width 60 cm.



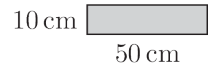
What is the size of each brick?

(**A**) 

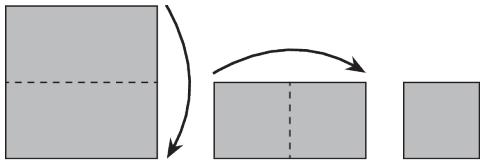
(**B**) 

(**C**) 

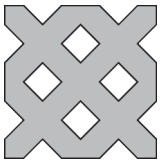
(**D**) 

(**E**) 

21. Nela folds a paper square in half and then in half again, as shown.



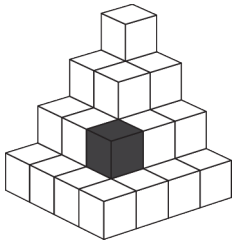
Next she cuts pieces out of the folded paper. After unfolding she sees a paper snowflake.



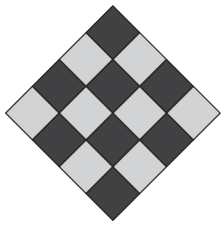
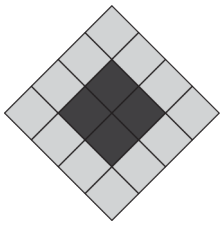
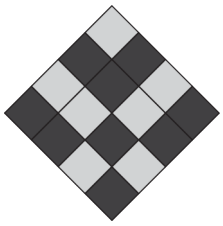
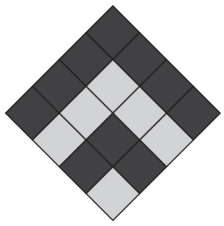
How did she cut the folded piece of paper?

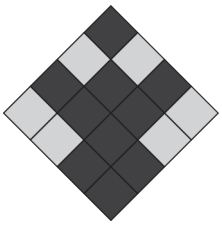
(**A**)  (**B**)  (**C**)  (**D**)  (**E**) 

22. Fabiola has built a pyramid using black and grey cubes. She arranges each cube so each face does not touch a face of another cube with the same colour. One of the black cubes is shown in the figure.

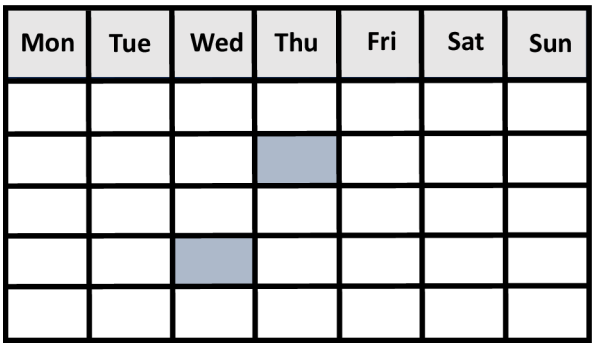


What will Fabiola's pyramid look like from above?

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

(**E**) 

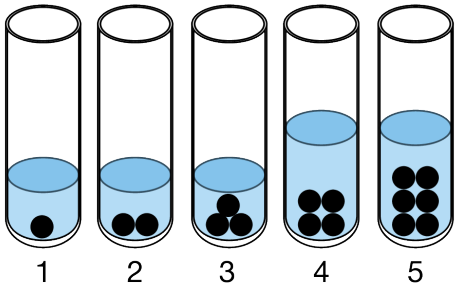
23. The picture shows the page for one month of a calendar, without any of the dates.



The total of the dates for the 2 shaded days is 29. On what day of the week does the first day of the month fall?

(**A**) Monday (**B**) Tuesday (**C**) Wednesday
(**D**) Thursday (**E**) Sunday

24. Identical balls have been placed in 5 identical test tubes, as shown.
Then, water is added to each of these test tubes.



The water levels in test tubes 1, 2, and 3 are the same.
The water levels in test tubes 4 and 5 are also the same and twice as high as in the first 3 test tubes. Then, all the balls are removed.
Which test tube has the least water?

(**A**) Test tube 1 (**B**) Test tube 2 (**C**) Test tube 3
(**D**) Test tube 4 (**E**) Test tube 5

Name:_____

Institution:_____

01.	A	B	C	D	E
02.	A	B	C	D	E
03.	A	B	C	D	E
04.	A	B	C	D	E
05.	A	B	C	D	E
06.	A	B	C	D	E
07.	A	B	C	D	E
08.	A	B	C	D	E
09.	A	B	C	D	E
10.	A	B	C	D	E
11.	A	B	C	D	E
12.	A	B	C	D	E

13.	A	B	C	D	E
14.	A	B	C	D	E
15.	A	B	C	D	E
16.	A	B	C	D	E
17.	A	B	C	D	E
18.	A	B	C	D	E
19.	A	B	C	D	E
20.	A	B	C	D	E
21.	A	B	C	D	E
22.	A	B	C	D	E
23.	A	B	C	D	E
24.	A	B	C	D	E