Canguro Matemático



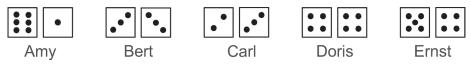
Ecolier Test
Third grade

Kangourou Sans Frontières

Costa Rica 2016

3 points

1. Amy, Bert, Carl, Doris and Ernst each rolled two dice and added the number of dots. Who rolled the largest total?



- (\mathbf{A}) Amy
- (B) Bert
- (C) Carl
- (**D**) Doris
- (E) Ernst

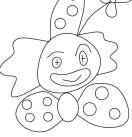
Small Kanga is 7 weeks and 2 days old. In how many days will Kanga be 8 weeks old?

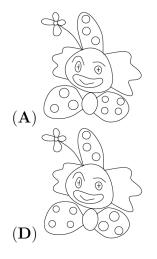
- (\mathbf{A}) 1
- (\mathbf{B}) 2
- (\mathbf{C}) 3
- $(\mathbf{D}) 4$
- (\mathbf{E}) 5

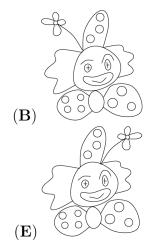
20 - 1617 + 33. ? (A) 24(B) 28

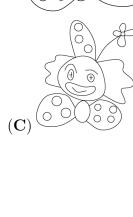
- (C) 36
- (**D**) 56
- (E) 80

What does Pipo see when he looks at himself in the mirror?

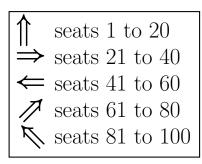








Geoff goes with his father to a circus. Their seats are numbered 71 and 72. Which way should they go?









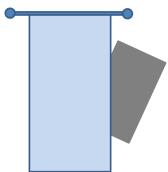




Anna shares some apples between herself and 5 friends. Everyone gets half of an apple. How many apples does she share?

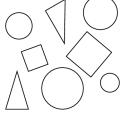
- (\mathbf{A}) 2 and a half (\mathbf{B}) 3
- (C) 4
- (**D**) 5
- (\mathbf{E}) 6

7. A rectangle is partly hidden behind a curtain. What shape is the hidden part?



- (A) A triangle
- (B) A square
- (C) A hexagon
- (**D**) A circle
- (E) A rectangle

Which one of the following sentences correctly describes the picture?



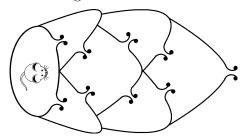
- (A) There are as many circles as squares.
- (B) There are fewer circles than triangles.
- (C) There are twice as many circles as triangles.
- (**D**) There are more squares than triangles.
- (E) There are two triangles more than circles.

4 points

9. The sum of the digits of the year 2016 is equal to 9. What is the next year, after 2016, where the sum of the digits of the year is equal to 9 again?

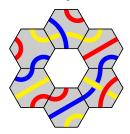
- (A) 2007
- $(\mathbf{B})\ 2025$
- (C) 2034
- $(\mathbf{D})\ 2108$
- (E) 2134

10. The mouse wants to escape from the maze. How many different paths can the mouse take without passing through the same gate more than once?



- (\mathbf{A}) 2
- $(\mathbf{B}) 4$
- (C) 5
- (\mathbf{D}) 6
- (\mathbf{E}) 7

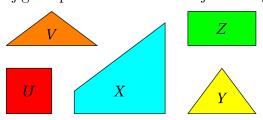
11. Which tile fits in the middle such that only lines with the same colour touch each other?



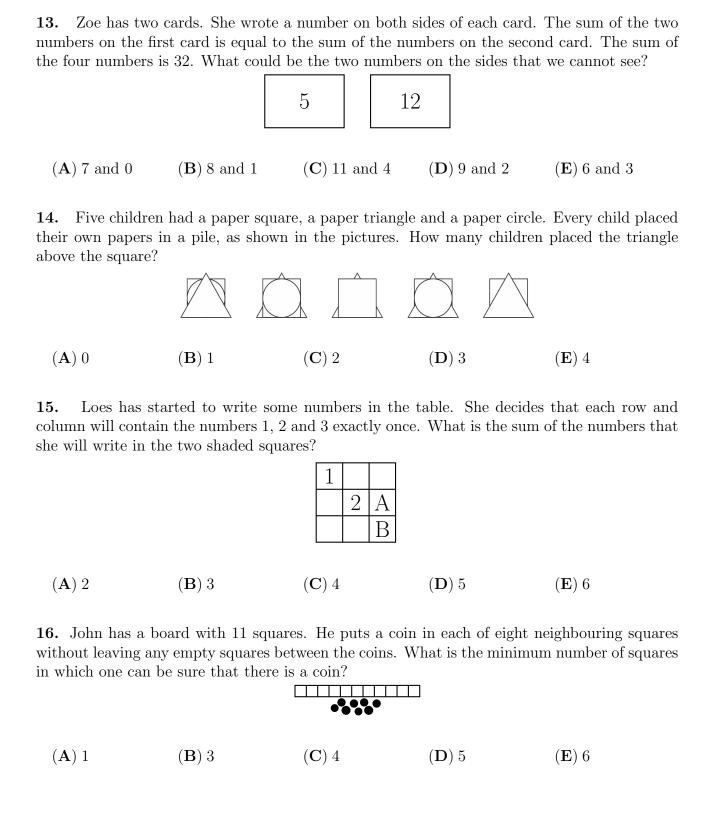
- (\mathbf{A})
- (B)
- (C)
- \mathbf{D}



12. Which three of the five jigsaw pieces shown can be joined together to form a square?

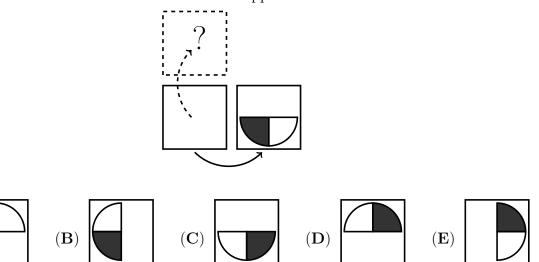


- (A) 1, 3 and 5
- (\mathbf{B}) 1, 2 and 5
- (C) 1, 4 and 5
- (\mathbf{D}) 3, 4 and 5
- (E) 2, 3 and 5

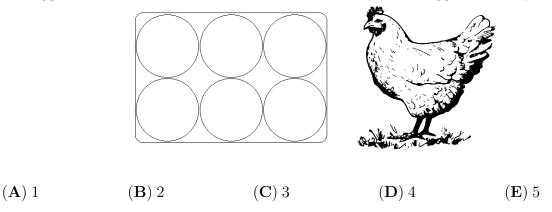


5 points

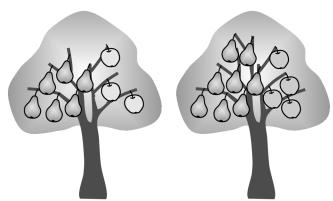
17. Having turned a card over around its right side, we see what is drawn in the figure. What shall we see if we turn this card over around its upper side?



18. Agatha, the hen, lays white and brown eggs. Lisa puts six eggs in the box below. Two brown eggs cannot touch each other. At most, how many brown eggs can Lisa put in the box?



19. Magic trees grow in a magic garden. Each tree contains either 6 pears and 3 apples or 8 pears and 4 apples. There are 25 apples in the garden. How many pears are there in the garden?

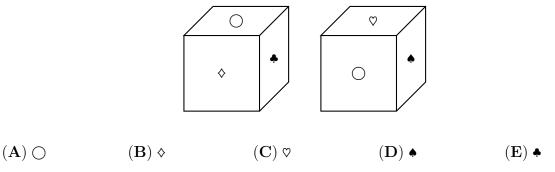


(E) 56

(A) 35 **(B)** 40 **(C)** 45 **(D)** 50

20.	My dogs have	18 more legs than	noses. How many	dogs do I have?	
(A	A) 4	(\mathbf{B}) 5	(C) 6	(D) 8	$(\mathbf{E}) 9$

21. On each of six faces of a cube there is one of the following six symbols: \blacklozenge , \diamondsuit , \heartsuit , \blacklozenge , \Box and \bigcirc . On each face there is a different symbol. In the picture we can see this cube shown in two different positions. Which symbol is opposite the \Box ?



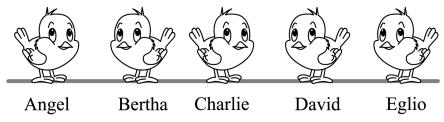
22. Rachel adds seven numbers and gets 2016. One of the numbers in the addition is 201. She replaces the number 201 with 102. What answer does she get?

(A) 1815 (B) 1914 (C) 1917 (D) 2115 (E) 2118

23. The numbers 1, 5, 8, 9, 10, 12 and 15 are distributed into groups with one or more numbers. The sum of the numbers in each group is the same. What is the largest number of groups?

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

24. Five sparrows sit on a branch, as shown in the figure. Each sparrow chirps the same number of times as the number of sparrows it sees. For example, Angel chirps four times. Then, one sparrow turns to look in the opposite direction. Again, each of the sparrows chirps the same number of times as the number of sparrows it sees. This time, the total number of chirps is more than the first time. Which of the sparrows has turned to look in the opposite direction?



(A) Angel (B) Bertha (C) Charlie (D) David (E) Eglio



Answers

Name:_											
Institution:						Gra	Grade:				
01.	A	В	С	D	Е	13.	A	В	С	D	Ε
02.	A	В	С	D	Е	14.	A	В	С	D	Ε
03.	A	В	С	D	Е	15.	A	В	С	D	Е
04.	A	В	С	D	Е	16.	A	В	С	D	E
05.	A	В	С	D	Е	17.	A	В	С	D	Ε
06.	A	В	С	D	Е	18.	A	В	С	D	E
07.	A	В	С	D	Е	19.	A	В	С	D	Ε
08.	A	В	С	D	Е	20.	A	В	С	D	Ε
09.	A	В	С	D	Е	21.	A	В	С	D	E
10.	A	В	С	D	Е	22.	A	В	С	D	E
11.	A	В	С	D	Е	23.	A	В	С	D	E
12.	A	В	С	D	Е	24.	A	В	С	D	Ε