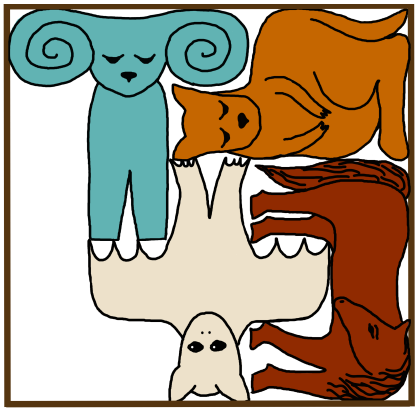
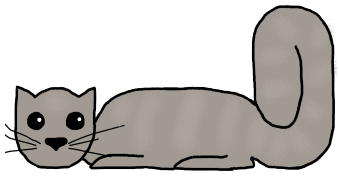
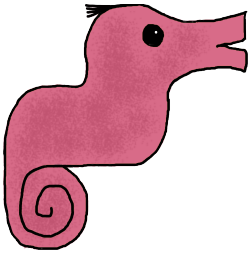
Ecolier

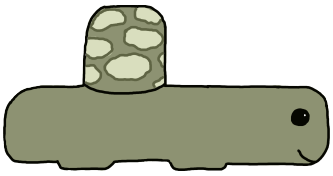
3 points

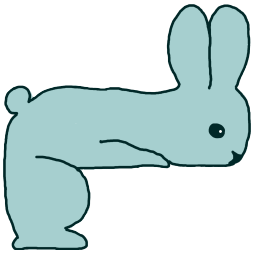
1. 

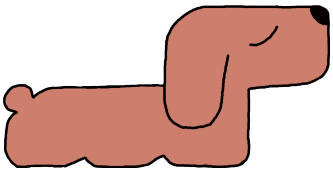
Which animal should Lisa put in to fill the square?

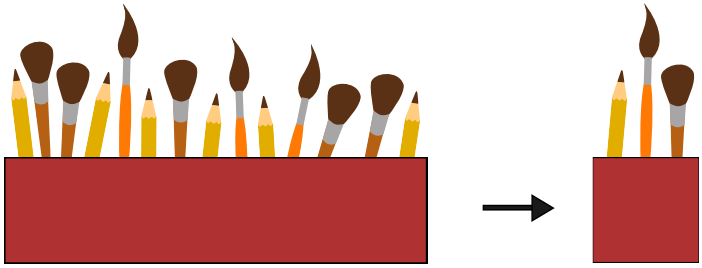
(**A**) 

(**B**) 

(**C**) 

(**D**) 

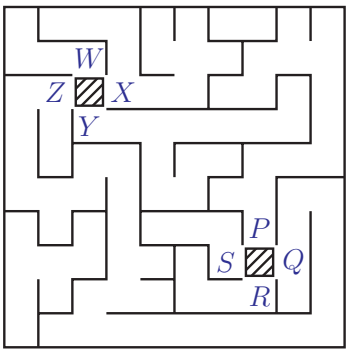
(**E**) 

2. 

Anita wants to make up some small boxes containing a pencil and one of each type of paint brush. How many complete small boxes can Anita make from the larger box shown above?

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

3. Vilka stands on the shaded square between W, X, Y and Z.
Kelia stands on the shaded square between P, Q, R and S.
Which route should Vilka take in order to meet Kelia?



(**A**) X to P

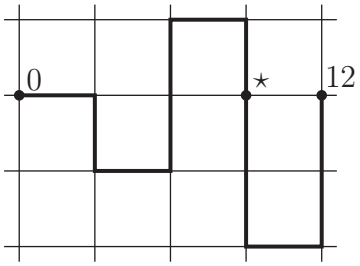
(**B**) Y to P

(**C**) Z to P

(**D**) X to Q

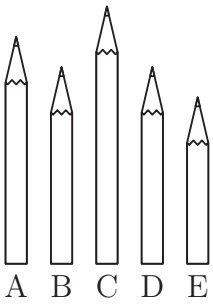
(**E**) Z to Q

4. Alina folds a number line in several places, as shown below.
What number is on the line at the place marked by the $\star$?



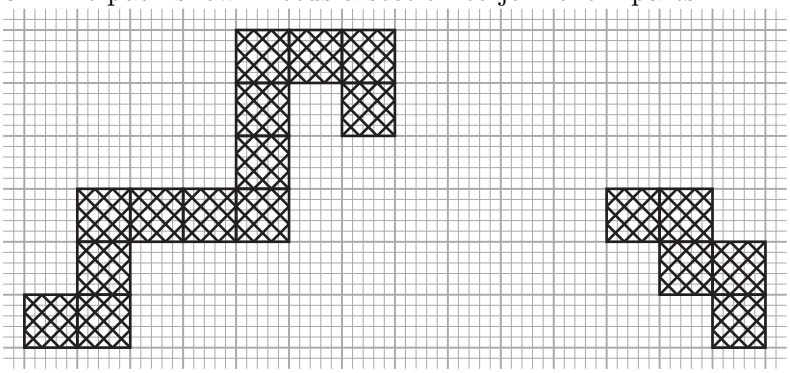
(**A**) 3 (**B**) 5 (**C**) 6 (**D**) 7 (**E**) 9

5. Finn has 5 pencils.
The shortest one is blue.
The green and red pencils are the same length.
The purple pencil is shorter than the yellow one.
Which pencil is the purple one?

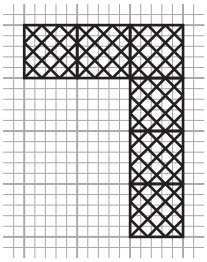


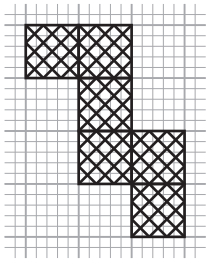
(**A**) A (**B**) B (**C**) C (**D**) D (**E**) E

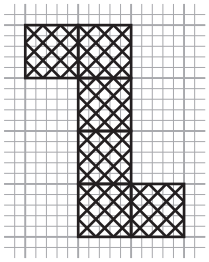
6. The path shown needs a section to join the 2 parts.

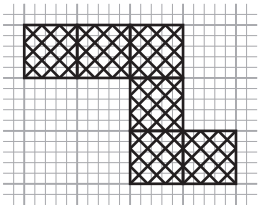


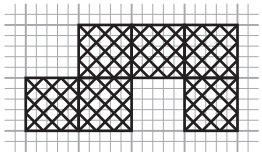
A section may not be turned.
A section needs to share a side with another section of the path.
Which section will complete the path?

(**A**) 

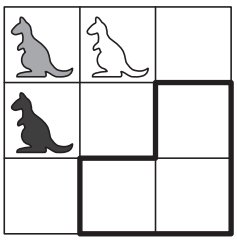
(**B**) 

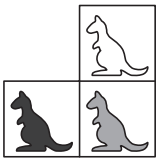
(**C**) 

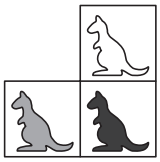
(**D**) 

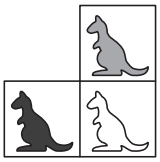
(**E**) 

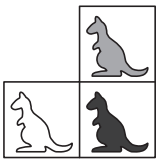
7. Dan draws a white, grey or black kangaroo in every small square.
After that, each row and each column contains exactly 1 white, 1 grey and 1 black kangaroo.
What does Dan draw in the outlined section?

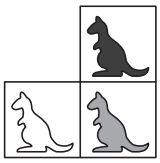


(**A**) 

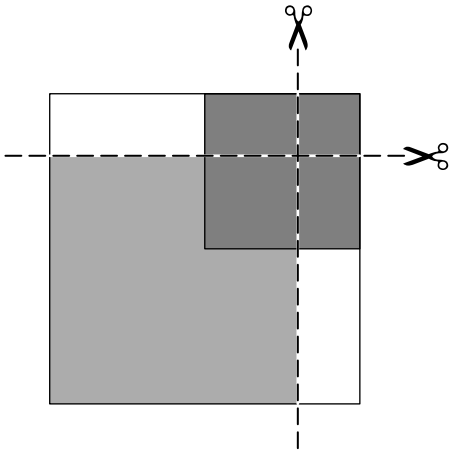
(**B**) 

(**C**) 

(**D**) 

(**E**) 

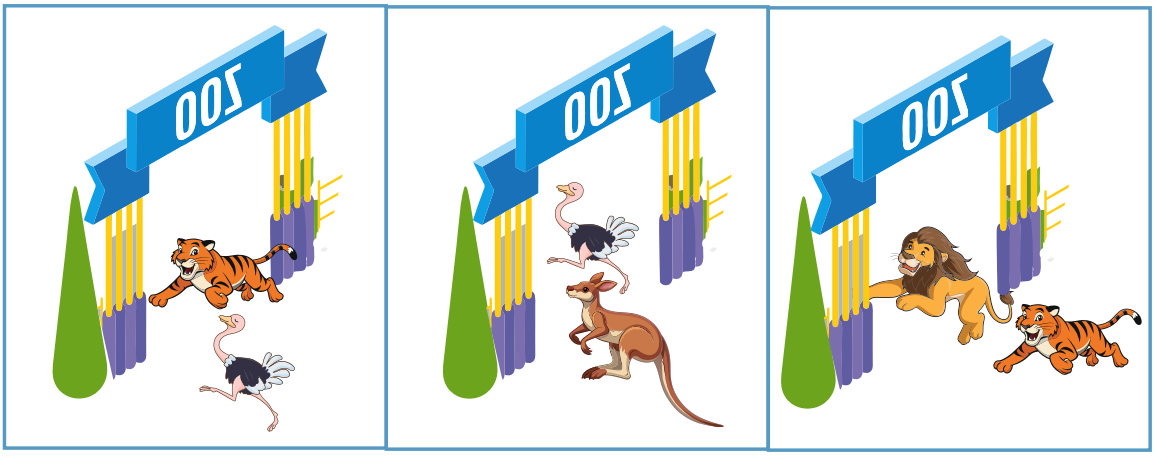
8. Ann places a white square on the table.
She then places a grey square and a black square on top, as shown.
Then she cuts the stack of squares along the two lines.
How many squares does she get?



(**A**) 3
(**B**) 4
(**C**) 5
(**D**) 7
(**E**) 9

4 points

9. The 3 photographs show a tiger , a kangaroo , a lion , and an ostrich  escaping from the zoo.

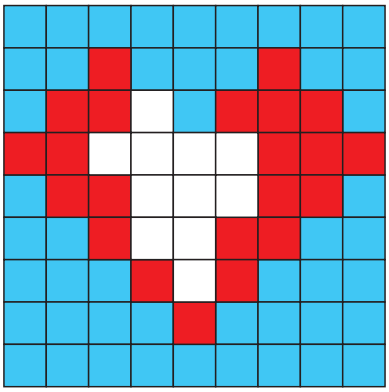


In what order did they escape through the gate?

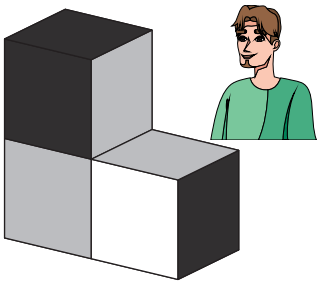
(**A**) lion, ostrich, tiger, kangaroo (**B**) lion, tiger, ostrich, kangaroo (**C**) tiger, ostrich, kangaroo, lion
(**D**) ostrich, kangaroo, lion, tiger (**E**) tiger, kangaroo, lion, ostrich

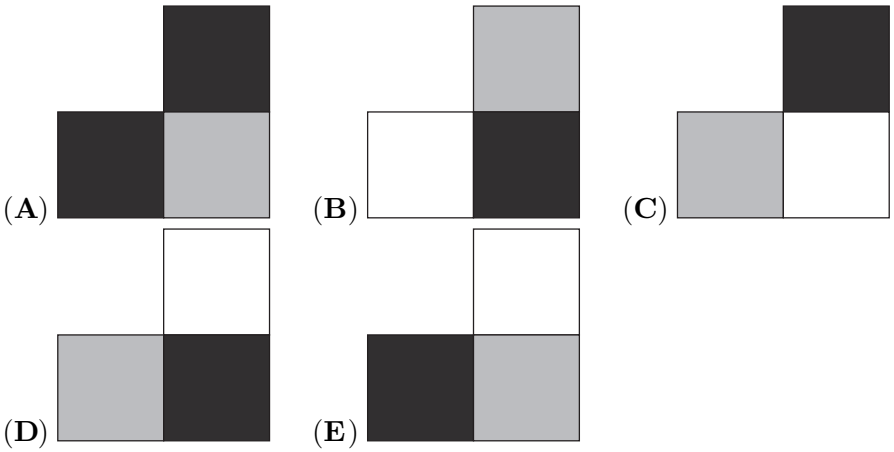
10. Bella is making a heart puzzle for her friend.
She intends to use 4 of the following pieces to finish it.
Which one does she leave out?



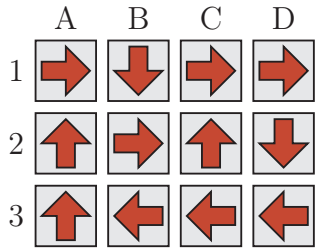


11. Julio has put 3 identical blocks together, as shown.
On every block, each black face is opposite a white face, and each grey face is opposite a grey face.
Julio looks at the building, as shown.
What does he see?



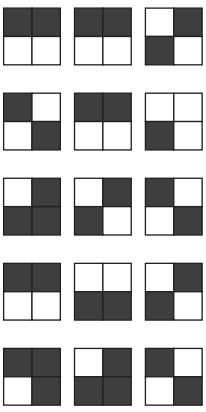


12. Each arrow shows how Indira must move from one square to the next.
From which square should Indira start to visit all the squares exactly once?



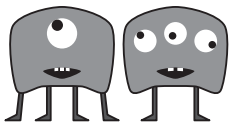
(**A**) A1
(**B**) B1
(**C**) C2
(**D**) D2
(**E**) A3

13. Each pattern in the 5 rows shown in the picture represent one of the three-digit numbers: 183, 451, 521, 872, and 882, but not in this order.
Each digit from 0 to 9 has its own unique pattern.
Which number is represented by the pattern in the last row?



(**A**) 183
(**B**) 451
(**C**) 521
(**D**) 872
(**E**) 882

14. In a village, there are two types of monsters:



- monsters with 1 eye and 4 legs,
- monsters with 3 eyes and 2 legs.

The monsters have 9 eyes and 16 legs in total.
How many monsters with 1 eye are there?

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

15. Selina has built towers from cubes on a square grid.
Looking from above, the number on each tower shows the tower's height.
Looking from the front in the direction of the arrows, Selina cannot see towers that are behind higher towers.
How many towers can she see?

4	8	8	6
2	6	6	8
6	4	2	4
2	2	4	6

↑ ↑ ↑ ↑

(**A**) 8 (**B**) 9 (**C**) 10 (**D**) 11 (**E**) 12

16. Cela, Ela, and Fela go to an ice cream shop.

One of the girls buys strawberry ice cream ,

another buys vanilla ice cream ,

and another buys chocolate ice cream .

Each girl buys a different number of scoops: 1, 2, or 3.
We know that:
• Cela does not buy strawberry ice cream and chooses the smallest amount,
• Ela does not buy chocolate ice cream,
• The chocolate ice cream is the largest.
Which ice cream does Fela buy?

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

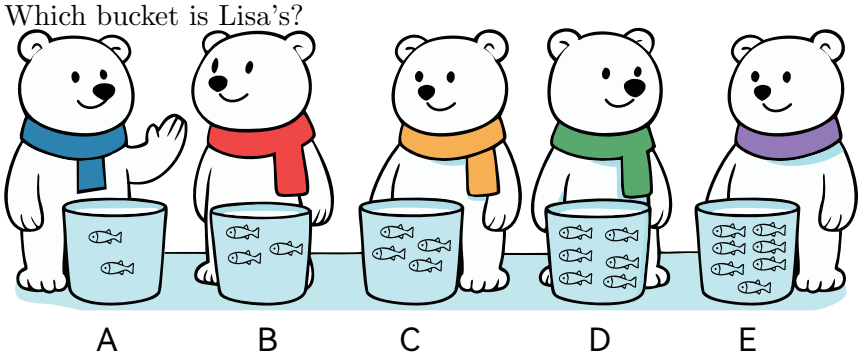
5 points

17. Rosy wishes to write the numbers 2, 0, 2, 6 in the square grid shown, so that in each row and in each column there is exactly one 0 and one 6 and two 2's.
She has already written some of the numbers.
When she has finished, what will the sum of the numbers in the squares with the question marks be?

2			
	0		?
		2	
	?		6

(**A**) 0 (**B**) 2 (**C**) 4 (**D**) 6 (**E**) 8

18. The 5 polar bears, Karen, Lisa, Marieke, Nadja and Peter, each keep the fish they have caught in a bucket.
Karen tells Lisa: "Give me 2 fish, and we will have the same number of fish."
Marieke tells Karen and Lisa: "I have half the number of fish that you two have in total."
Which bucket is Lisa's?



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

19. Five children, Hoa, My, Toa, Ly and Chi, hold hands to make a circle, facing upwards.



- Hoa is holding My's left hand,
- Ly is not holding Toa's hand,
- Toa is holding Chi's right hand.

Who is Ly holding hands with?

(**A**) Hoa and Chi (**B**) Hoa and My (**C**) Toa and My
(**D**) Chi and My (**E**) Toa and Chi

20. Alex has 13 cards with digits and arithmetic symbols:



Using some of these cards, without rotating any of them, he formed a valid calculation and then covered its top part:

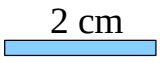


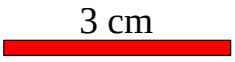
What is the sum of the 4 digits Alex used?

(**A**) 19 (**B**) 21 (**C**) 23 (**D**) 25 (**E**) 32

21. The 3 girls Lea, Ida and Mia, each have a box of sticks.

One girl has 

sticks, another 

sticks, and another 

sticks.

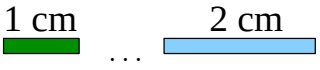
We do not know which one has which.

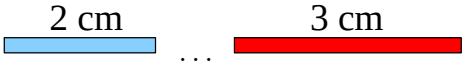
Lea places her stick on the ground.

Then each girl places her stick to the right of the previous stick in the order Mia, Ida, Lea, Mia, Ida, Lea and so on.

This makes a straight line 50 cm long.

Which 2 sticks are at the beginning and at the end of the line?

(**A**) 

(**B**) 

(**C**) 

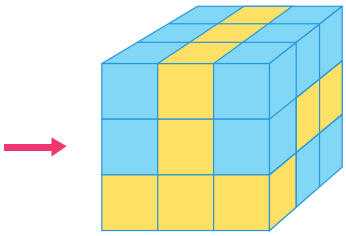
(**D**) 

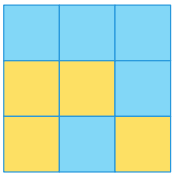
(**E**) 

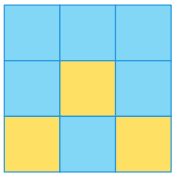
22. The big cube is made out of 16 blue cubes and 11 yellow cubes, all of the same size.

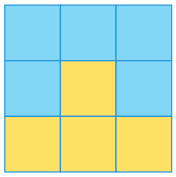
Lily is looking towards the cube in the direction shown.

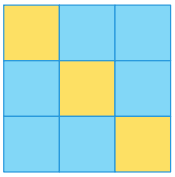
What could she see?

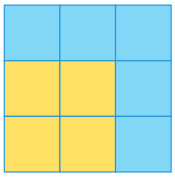


(**A**) 

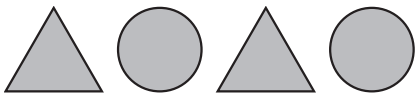
(**B**) 

(**C**) 

(**D**) 

(**E**) 

23. There are 4 buttons in a row on a screen.



2 of them show circles and 2 show triangles.

When a button is pressed, its shape and the shapes of any buttons directly next to it change.

A circle becomes a triangle and a triangle becomes a circle.

What is the smallest number of button presses needed for the screen to show 4 circles?

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

24. Each square in a grid contains at least 1 sweet.
The grid in the figure shows for each square how many sweets are in total in the neighbouring squares.
Two squares are neighbours if they share a side.
How many sweets are there in total in the 9 squares?

2	4	3
7	7	3
4	6	5

(**A**) 16 (**B**) 17 (**C**) 18 (**D**) 20 (**E**) 21