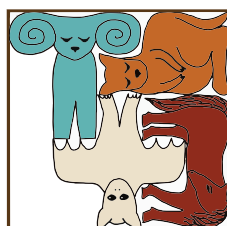
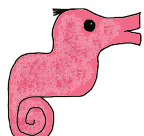
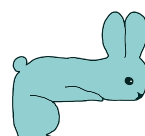


3 points problems

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, a ruler, and a brush, as shown beside, from the larger box shown below.

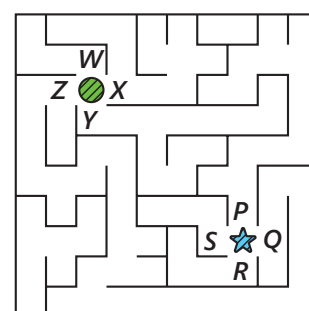


How many complete small boxes can Anita make from the 14 objects in the larger box?

- (A) 2 (B) 3 (C) 4 (D) 5 (E) 6
3. Vilka stands on the circle between *W*, *X*, *Y*, and *Z*. Kelia stands on the star between *P*, *Q*, *R*, and *S*.

Which route should Vilka take in order to meet Kelia?

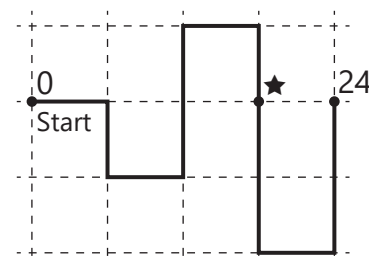
- (A) *X* to *P*. (D) *X* to *Q*.
 (B) *Y* to *P*. (E) *Z* to *Q*.
 (C) *Z* to *P*.



4. Alina draws on the grid the path taken by the Kangaroo.

What is the distance the Kangaroo walked from the starting point to the star ★?

- (A) 6 (D) 14
 (B) 10 (E) 16
 (C) 12



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?

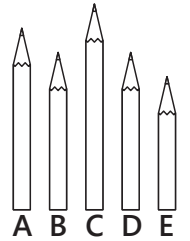
(A) A

(D) D

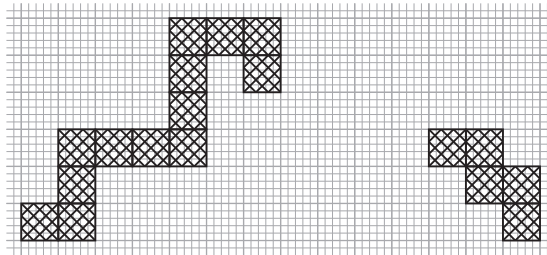
(B) B

(E) E

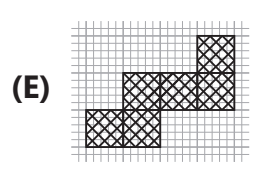
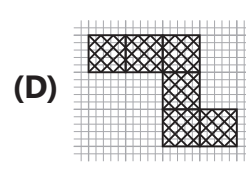
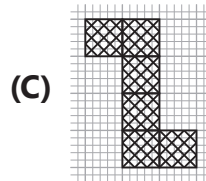
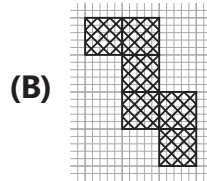
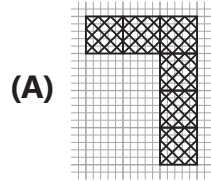
(C) C



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

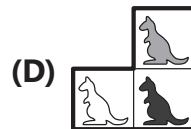
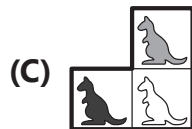
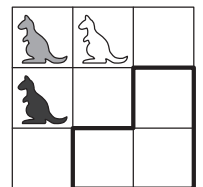


Which section completes the path without being flipped or rotated?



7. Each row and each column of the grid must contain exactly 1 white, 1 grey and 1 black kangaroo.

Which option shows how the outlined section of the grid should look like?



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 dashed lines.

How many squares does she get?

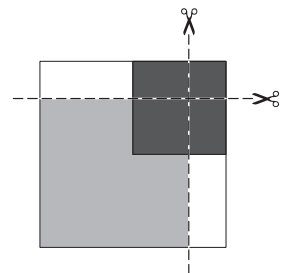
(A) 3

(C) 5

(E) 9

(B) 4

(D) 7



4 points problems

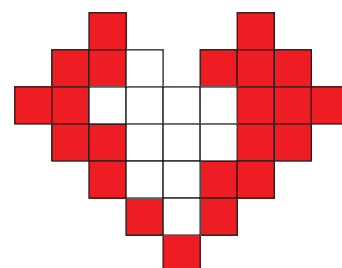
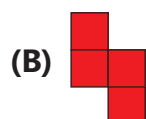
9. The 3 photographs show a tiger , a kangaroo , a lion  and an ostrich  escaping from the zoo.



In what order did they escape through the gate?

- (A) Lion, ostrich, tiger, kangaroo. (D) Ostrich, kangaroo, lion, tiger.
 (B) Lion, tiger, ostrich, kangaroo. (E) Tiger, kangaroo, lion, ostrich.
 (C) Tiger, ostrich, kangaroo, lion.
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?

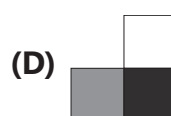
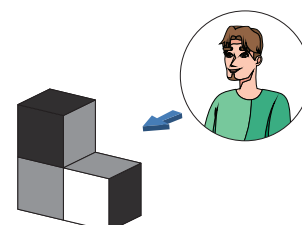


11. Julio has put 3 identical blocks together, as shown.

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.

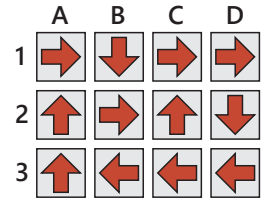
What does he see?



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

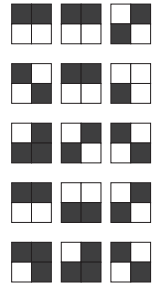


13. Each pattern in the 5 rows shown in the picture represent one of the three-digit numbers: 183, 451, 521, 872, and 882, but not in this order.

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



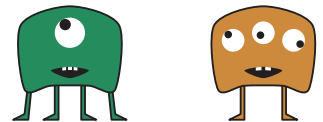
14. In a village, there are two types of monsters:

- Monsters with 1 eye and 4 legs.
- Monsters with 3 eyes and 2 legs.

The monsters in this village 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. Rosy wishes to write the numbers 2, 0, 2 and 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?

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

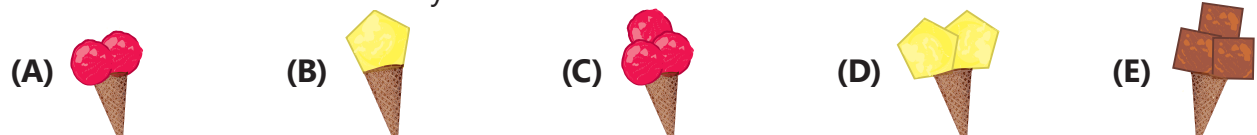
2			
	0		?
		2	
	?		6

16. Cela, Ela, and Fela go to an ice cream shop. One of the girls buys strawberry ice cream , another buys passion fruit 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?



5 points problems

17. Selina has built towers from cubes on a square grid.

The figure shows the top view of the towers, and the numbers indicate how many cubes were used in each tower. 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 when looking from the direction of the arrows?

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

↑ ↑ ↑ ↑

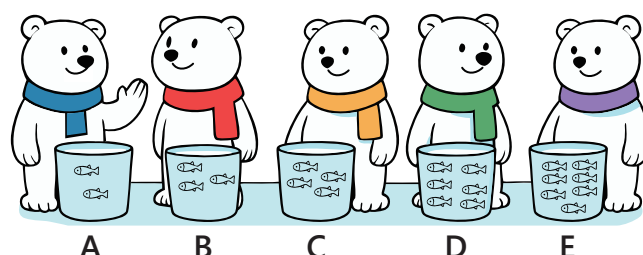
- (A) 8 (B) 9 (C) 10 (D) 11 (E) 12

18. The five polar bears 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, Maya, Toa, Ly and Chi, hold hands to make a circle, facing upwards.

- Hoa is holding Maya'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 (D) Chi and Maya
(B) Hoa and Maya (E) Toa and Chi
(C) Toa and Maya



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 just 1 cm sticks, another just 2 cm sticks, and another just 3 cm sticks.

Lea is the first to place her stick on the ground. Then each girl places her stick to the right of the previous stick respecting the order Mia, Ida, Lea, Mia, Ida, Lea and so on.

This makes a straight line 50 cm long.

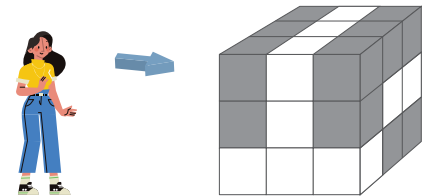
Which 2 sticks are at the beginning and at the end of the line?

- (A) 1 cm ... 2 cm (D) 3 cm ... 3 cm
 (B) 2 cm ... 3 cm (E) 2 cm ... 2 cm
 (C) 3 cm ... 1 cm

22. The big cube shown in the picture is made of 16 grey cubes and 11 white cubes, all of the same size.

Lily is looking at the face indicated by the arrow.

What could she see?



- (A)

grey	grey	grey
white	white	grey
white	grey	white

 (B)

grey	grey	grey
grey	white	grey
white	grey	white

 (C)

grey	grey	grey
grey	white	grey
white	white	white

 (D)

white	grey	grey
grey	white	grey
grey	grey	white

 (E)

grey	grey	grey
white	white	grey
white	white	white

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 (C) 4 (E) 6
 (B) 3 (D) 5

24. 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. Each square in a grid contains at least 1 sweet.

How many sweets are there in total in the 9 squares?

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

2	4	3
7	7	3
4	6	5