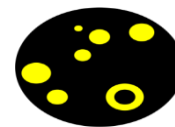
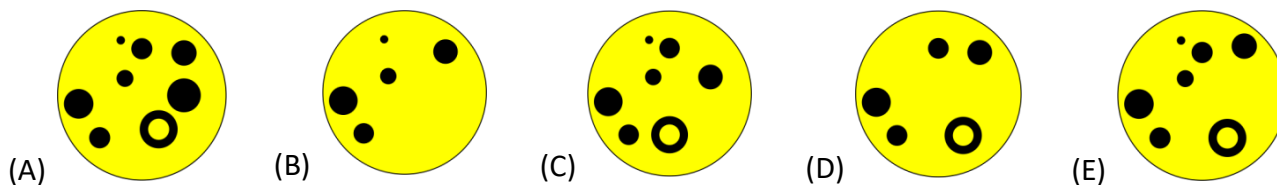


3 point problems

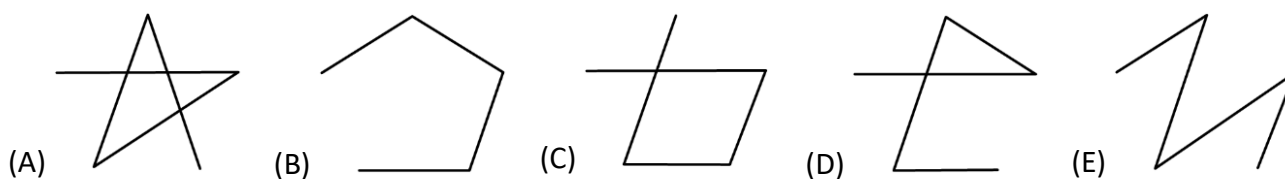
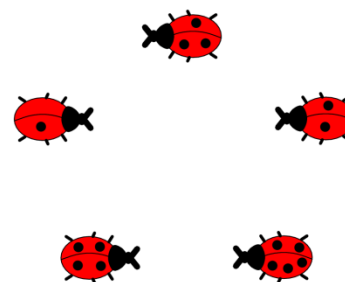
1. Look at the picture:



What do you get when you invert the colours?



2. Alice draws a line connecting all the ladybirds. She starts with the ladybird with one dot and each line she draws goes from a ladybird to the other one with a higher number of dots. Which figure will she get?



3. Mary glued 4-ray stars like this



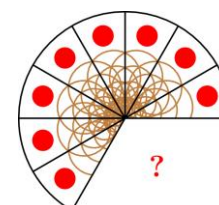
to have a piece as shown. At least,

how many stars did she use?



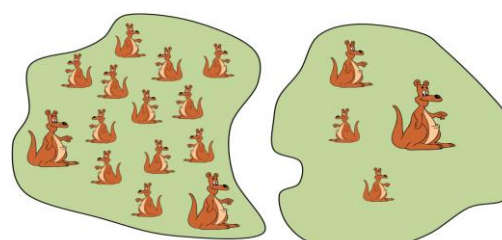
(A) 5 (B) 6 (C) 7 (D) 8 (E) 9

4. This pizza was divided into equal parts. How many parts have been taken?



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

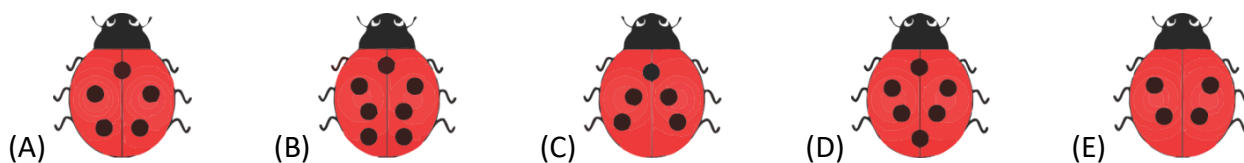
5. How many kangaroos must be moved from one park to the other in order to get the same number of kangaroos in both parks?



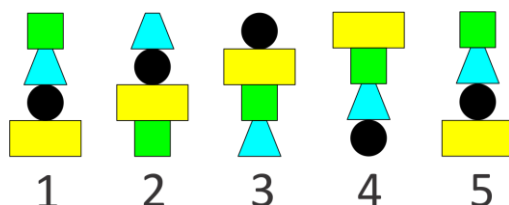
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(A) 4 (B) 5 (C) 6 (D) 8 (E) 9

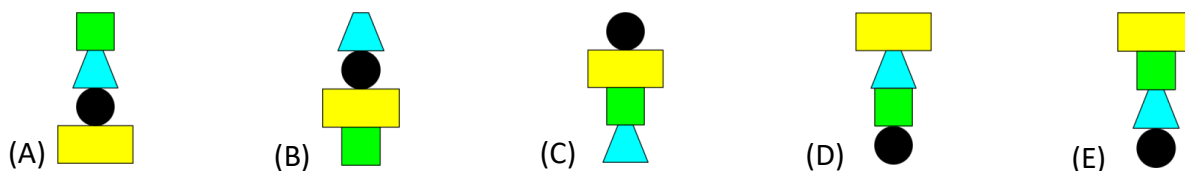
6. Which of these ladybirds has to fly away so that the rest of them have 20 dots in total?



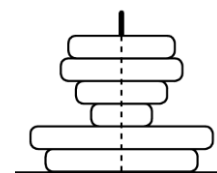
7. Emilie builds a sequence of towers in the following pattern:



Which one will be the tower number 16?



8. Theodor assembled a stack of discs as seen in the picture. How many discs will he see looking at it from above?



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

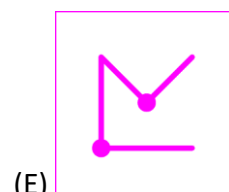
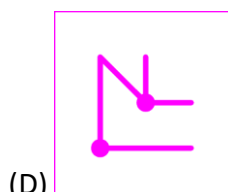
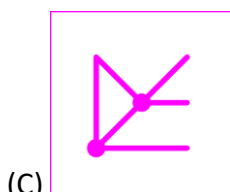
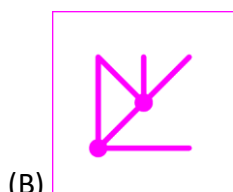
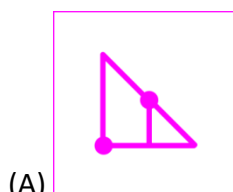
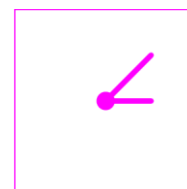
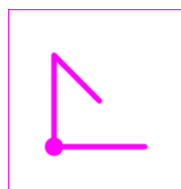
4 point problems

9. Joana, the friendly witch, has 5 broomsticks in her garage. She removes the broomsticks one by one without moving the others. Which broomstick will Juana take at last?



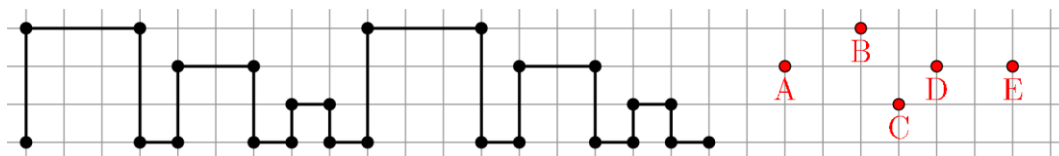
- (A) 1 (B) 2 (C) 3 (D) 4 (E) 5

10. The two transparent squares are equal in size, but with different draws. If you put one over the other, what could be seen?



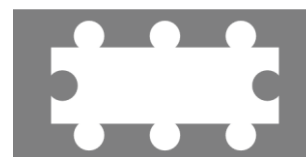
- (A) (B) (C) (D) (E)

11. Peter drew a pattern twice, as in the picture. If he draws once more the same pattern, one point indicated by the letters shown will be reached by the draw. Which is the letter?

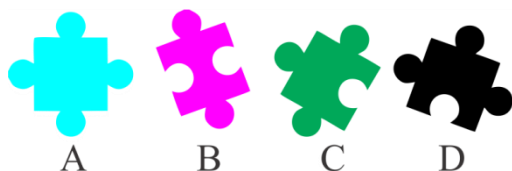


- (A) A (B) B (C) C (D) D (E) E

12. Lisa has 4 pieces, but she only needs 3 for her puzzle frame. Which one will be left over?

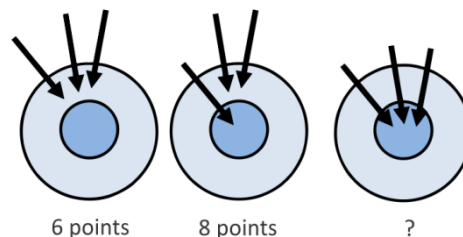


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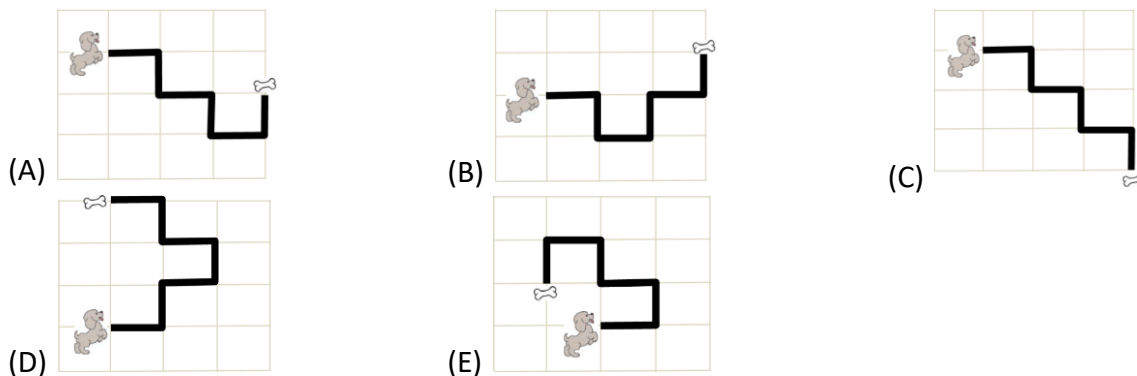
- (A) A (B) B (C) C (D) D (E) C ou D

13. Diana first got 6 points with three arrows on the target. The second time she got 8 points with three arrows. How many points did she get the third time?



- (A) 8 (B) 10 (C) 12 (D) 14 (E) 16

14. The dog went to its food following a path, as shown. At the crossroads it had to turn totally 3 times to the right and 2 times to the left. Which path did the dog follow?



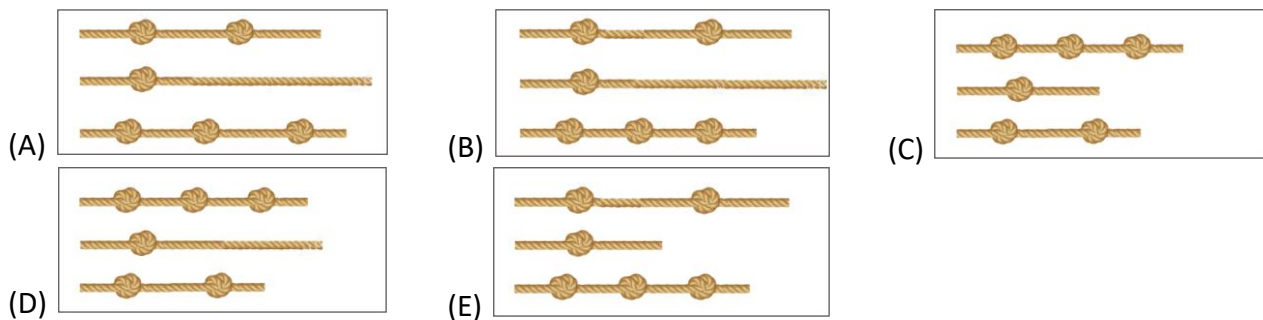
15. How many times your own right hand appears in the picture?



- (A) 3 (B) 4 (C) 5 (D) 6 (E) 7

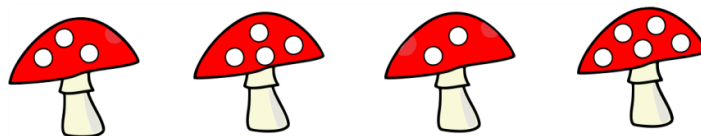
16. Charles cut a rope in three equal pieces. Then he made some equal knots with them. Which figure shows correctly the three pieces with the knots?

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5 point problems

17. The number of dwarfs that can fit under a mushroom is equal to the number of dots on the mushroom cap. The picture below shows the front side of each mushroom. The number of dots on the other side is the same. If 30 dwarfs are seeking shelter in these mushrooms, how many dwarfs will not get it?



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

18. In a grocery store, 1 lollipop costs 1 real. There is a promotion so you can buy 6 lollipops for 5 reais. How many lollipops at most could you buy with 36 reais?

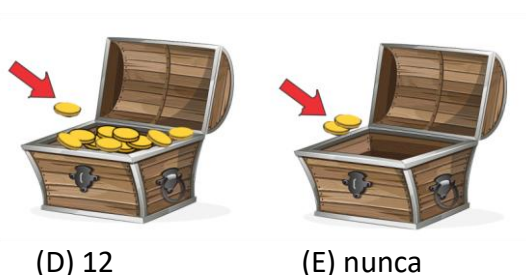
- (A) 30 (B) 36 (C) 42 (D) 43 (E) 45



19. Julia wants to write all two digits numbers with distinct digits by using only the digits 2, 0, 1 and 8. How many different numbers greater than 10 and smaller than 25 can she write?

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

20. A pirate has two chests. There are 10 coins in the left chest and the other is empty. Starting tomorrow, the pirate will put 1 coin in the left chest and 2 coins in the other one every day. In how many days will the two chests have the same number of coins?



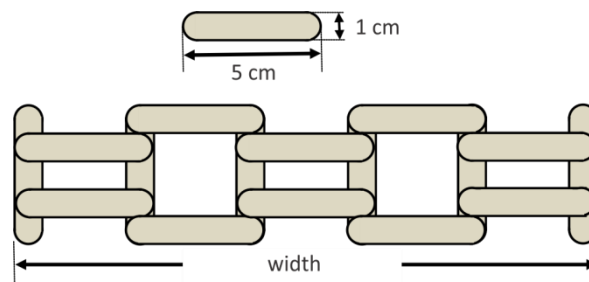
- (A) 5 (B) 8 (C) 10 (D) 12 (E) nunca

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21. Alice has 3 white, 2 black and 2 grey sheets of paper. She cuts every non-black sheet of paper in half. Then she cuts every non-white sheet or piece of paper in half. How many pieces of paper will she have?

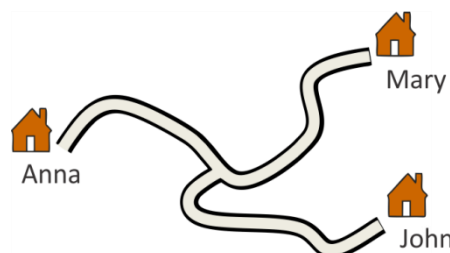
- (A) 14 (B) 16 (C) 17 (D) 18 (E) 20

22. Mario has some sticks of length 5 cm and width 1 cm. With the sticks he constructed the fence on the right. What is the length of the fence?



- (A) 20 cm (B) 21 cm (C) 22 cm (D) 23 cm (E) 25 cm

23. The road from Anna's to Mary's house is 16 km long. The road from Mary's to John's house is 20 km long and the road from the crossroad to Mary's house is 9 km long. How long is the road from Anna's to John's house?



- (A) 7 km (B) 9 km (C) 11 km (D) 16 km (E) 18 km

24. Lena bought 4 toys in the store. Their costs are represented by the figures in the equalities below:

$$\text{Toy 1} + \text{Toy 2} + \text{Toy 3} = \text{Toy 4}$$

$$\text{Toy 1} + \text{Toy 4} = \text{Toy 5} \text{ and}$$

$$\text{Toy 6} + \text{Toy 4} = \text{Toy 1} + \text{Toy 5}$$

Which pair shows the cheapest and the most expensive toys?

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