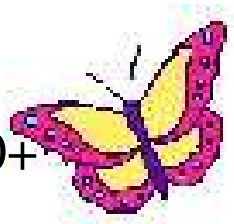
Ecolier

Each solved problem gives you 3 points.

1. A butterfly sat down on a correctly solved exercise. What number is the butterfly covering?

$$2005 - 205 = 1300+$$



(A) 500 (B) 910

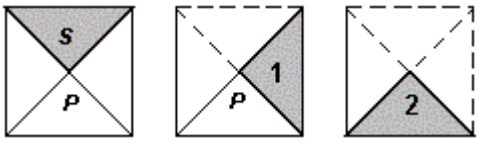
2. Sara has two dolls, three apples, a chocolate, two oranges, five peaches and one bike. Is it true that Sara has 10 fruits?

(A) Yes (B) No

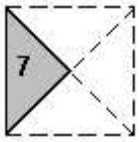
3. Fatima bought cookies, each of them costs Rs 3. She gave Rs 10 and obtained Rs 1 of the change. How many cookies did Fatima buy?

(A) 2 (B) 3

4. Ahmad is turning the triangle around point P as shown in the picture. In which position the triangle will appear after 7 moves?



(A) 

(B) 

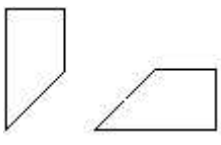
5. 19 boys and 12 girls are on the playground. Is it true that if one girl goes home, then the remaining children can be divided into six equal teams?

(A) Yes (B) No

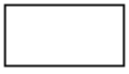
6. There were 9 pieces of paper. Some of them got cut into three parts. Altogether, there became 15 pieces of paper. How many pieces were cut into parts?

(A) 3 (B) 2

7. A square piece of paper has been cut in three pieces. Two of them are in the picture on the right. What is the third one?



(A) 

(B) 

8. What is the smallest possible number of children in a family if each child has at least one brother and one sister?

(A) 2 (B) 4

9. A jacket of a cowboy has five pockets. In each pocket he has put at least 1, but at most 5, shells. It turned out that the numbers of shells in the pockets are distinct. Is it true that the cowboy had 15 shells?

(A) Yes (B) No

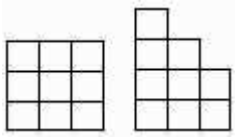
10. The elevator (lift) can not carry more than 150 kg. Four friend's weight: 60 kg, 80 kg, 80 kg and 80 kg. At least how many runs of the elevator (lift) are necessary to carry the four friends to the highest floor.

(A) 3 (B) 2

11. Hala lives in her home with father, mother, brother, one dog, two cats, two parrots and four fish. What is the total number of legs they altogether have?

(A) 24 (B) 22

12. If we count all possible small and big squares, then which figure contains more squares?

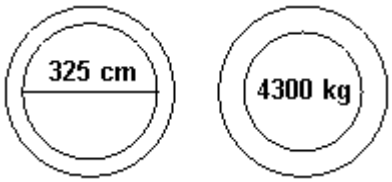


(A) the left (B) the right

13. In a trunk there are 5 boxes, and in each box there are 10 gold coins. The trunk and the boxes are locked. How many locks must be opened in order to get 25 coins?

(A) 3 (B) 4

14. Two traffic signs mark the bridge in my village. These marks indicate the maximum width and the maximum weight available. Which one of the following trucks is allowed to cross that bridge:



(A) the one 315 cm wide and weighing 4307 kg
(B) the one 322 cm wide and weighing 4298 kg

15. Every day Ahmad draw one flower in his note book. Maximum number of flowers in his note book after 10 years would be:

(A) 3653 (B) 3654

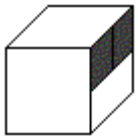
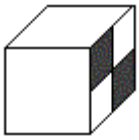
16. Can four lines have only two intersection points?

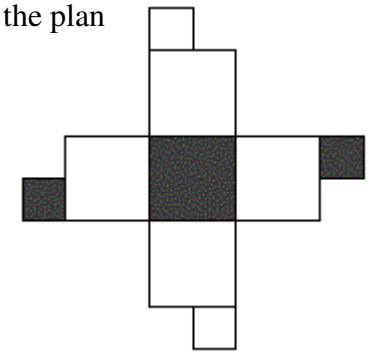
(A) Yes (B) No

17. It takes Amna 12 minutes to get to school, and it takes her brother Ahmad 8 minutes to get to school and return home. Is it true that Ahmad moves two times faster than Amna ?

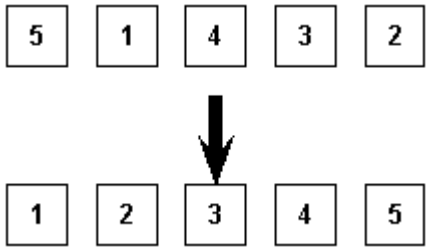
(A) Yes (B) No

18. Which of the following cubes has been folded from the plan on the right?

(A)  (B) 

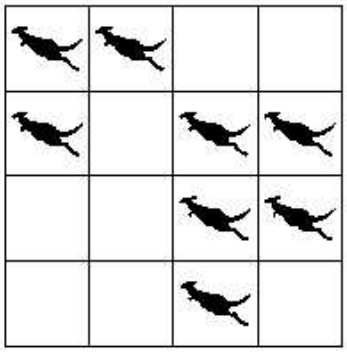


19. Five cards are lying on the table in the order 5, 1, 4, 3, 2. You must get the cards in the order 1, 2, 3, 4, 5. Per move, any two cards may be interchanged. How many moves do you need at least?



(A) 4 (B) 3

20. There are eight kangaroos in the cells of the table (see the picture). Any kangaroo can jump into any free cell. Find the least number of the kangaroos which have to jump into the other cells so that exactly two kangaroos remain in any row and in any column of the table.



(A) 2 (B) 1