



Informatics Assessment

Name :

Class:

Soal !

Instructions: Read carefully the questions below and answer the questions and use the time efficiently...

1. "Hopping Race"

On a sunny morning three friends, a rabbit, a frog and a kangaroo, competed in a hopping race. The course was the circumference of a circle with 15 step positions. The step positions are numbered from 0 to 14. Whenever anyone reaches or goes through position 14, the next position is 0.

The beaver, who is now the referee, will blow the whistle every second during the race. At each whistle blast, the rabbit can jump exactly 3 positions ahead; the frog jumps exactly 2 positions ahead, and the kangaroo jumps exactly 5 positions ahead.

At the start of the race everyone started in position 0.

After four blasts of the whistle, how many positions has each of them jumped? Write your answer only for the number of positions jumped, respectively the rabbit's position, the frog's position and the kangaroo's position (separated by only a comma! e.g. 3,2,5) and explain how you found the answer...





Answer no 1

2. "Balon Palindron"

Bella from the planet Belena has many balloons. She always puts her balloons in a row so that the color sequence is the same when viewed from the left end to the right, or from the right end to the left. Unfortunately, she can only see 4 different colors: green (G), yellow (Y), red (R) and blue (B). To Bella, purple (P) looks the same as yellow (Y).

Example: Bella will see that each of the following rows of balloons are the same if they are ordered from leftmost to right or from rightmost to leftmost.





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Challenge:

Which row of balloons will Bella see in the same color order?



Picture 1



Picture 2



Picture 3



Picture 4



Picture 5

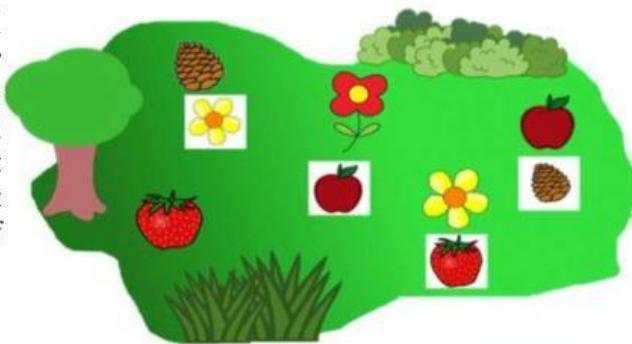
Answer No. 2 :



3. "Resep Rahasia"

The Beaver family is preparing for the Food Festival, and they want to bake cookies; Kati will be making the cookies. She pays close attention to the order of making the cookies by putting the ingredients in the right order.

As she walked into the garden, she noticed that there was a piece of instruction paper on each cake ingredient to be used. The picture on the paper explained which ingredient should be added in the next order. There is only one cake ingredient that does not have a paper. The illustration of the garden is as below:



Challenge: Which cake ingredient should be put in first? Write down how you found the answer

- | | | | |
|----|----|----|----|
| A) | B) | C) | D) |
|----|----|----|----|

Answer No. 3 :



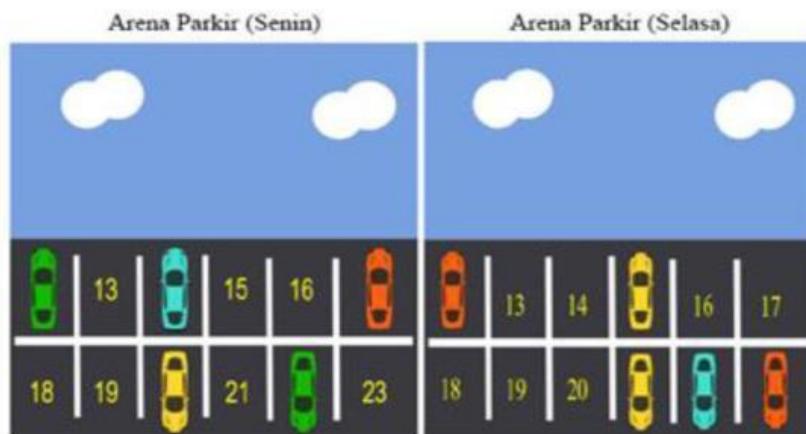
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There are 12 spaces for parking cars in the parking area. Each space is numbered. The picture below shows the condition of the parking area on Monday and the condition on Tuesday.



Cars parked on Monday as well as on Tuesday will definitely park in the spot shown in the picture.

Challenge: How many parking lots are never filled with cars on Mondays and Tuesdays? Write down how you found it

Answer Options:

- A. 3
- B. 6
- C. 4
- D. 5

Answer No. 4 :