

Q1

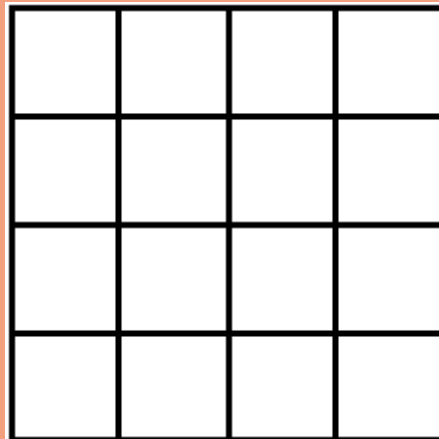
This comb is about 12 buttons long. How many toothpicks long is the comb?  
(Toothpick is shown in the picture below)



- A. 4
- B. 6
- C. 8
- D. 10
- E. 12

Q2

How many squares are there in the  $4 \times 4$  grid below?



- A. 16
- B. 25
- C. 29
- D. 30
- E. None of the above

Q3

A bucket contains 1 red, 1 yellow, 1 blue and 1 white flower. Maja, the bee, visits every flower in the bucket only once. She starts from the red flower, and she does not fly directly from the blue flower to the yellow flower. In how many ways can Maja visit all the flowers exactly once?

- A. 3
- B. 4
- C. 6
- D. 24
- E. None of the above

Q4

The seats on a children's merry-go-round are labelled 1, 2, 3, . . . . On the merry-go-round, Asad was sitting on seat number 2, exactly opposite Shaden, who was sitting on seat number 6. How many seats are there on the merry-go-round?

- A. 6
- B. 7
- C. 8
- D. 10
- E. None of the above

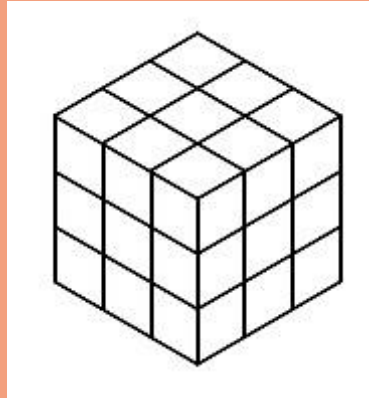
Q5

How many times does the digit "2" appear from 1 to 50?

- A. 12
- B. 13
- C. 14
- D. 15
- E. None of the above

Q6

A cube with side length of 3 cm is painted grey and cut into smaller cubes each with side length of 1 cm. How many of the smaller cubes have exactly 2 faces painted?



- A. 8
- B. 10
- C. 12
- D. 14
- E. None of the above

Q7

Cheryl collects photos of famous singers. The number of newly collected photos in each year is equal to the sum of the number of photos collected in the previous two years. She collected 60 photos in 2015 and 96 photos in 2016. How many photos did she collect in 2013?

- A. 12
- B. 24
- C. 36
- D. 156
- E. None of the above

Q8

Jessica has a lot of apps on her phone. The number of apps she has is divisible by 5. If she downloaded 10 more apps, she would still have less than 50 apps. What is the maximum original number of apps Jessica could have?

- A. 45
- B. 40
- C. 35
- D. 30
- E. 49

Q9

A minute ago, there were 20 more people in room A than in room B. Six people from room A moved to room B. How many more people are there in room A than in room B now?

Q10

In a class, 14 students collect stamps, 16 students collect postcards, 5 students collect both and 4 students collect none of them. How many students are there in this class?