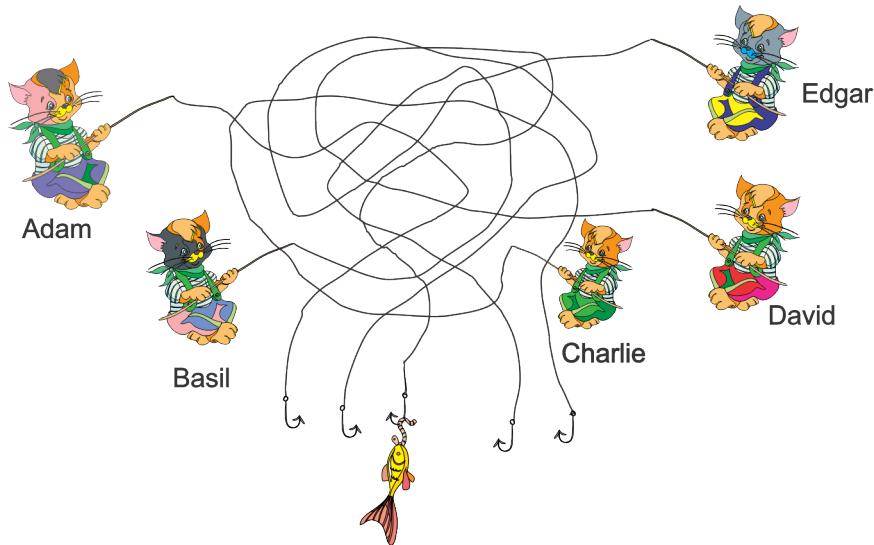


3 points

1. Who catches the fish?

Siapakah yang menangkap ikan tersebut?

请问是谁钓到了那条鱼？

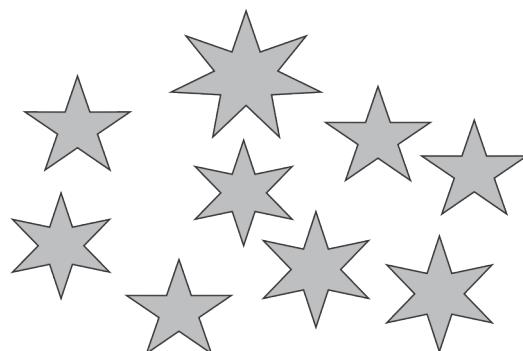


- (A) Adam (B) Basil (C) Charlie (D) David (E) Edgar

2. In the picture there are 5-pointed, 6-pointed and 7-pointed stars. How many 5-pointed stars are there?

Pada gambar berikut terdapat bintang dengan 5 bucu, 6 bucu dan 7 bucu. Berapakah bilangan bintang dengan 5 bucu?

图中有数个 5 角星、6 角星和 7 角星。请问图中有多少个 5 角星？

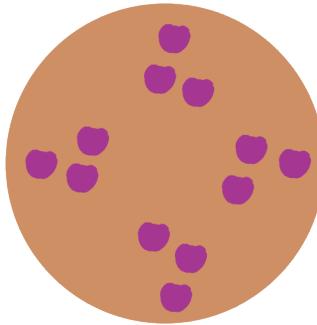


- (A) 2 (B) 3 (C) 4 (D) 5 (E) 9

3. The cake in the picture is cut and divided among some children. Each child receives a piece of the cake with three cherries on top. How many children are there?

Kek pada gambar berikut dipotong dan dibahagikan kepada beberapa orang kanak-kanak. Setiap orang memperoleh sepotong kek dengan tiga biji ceri di atasnya. Berapakah bilangan kanak-kanak yang ada?

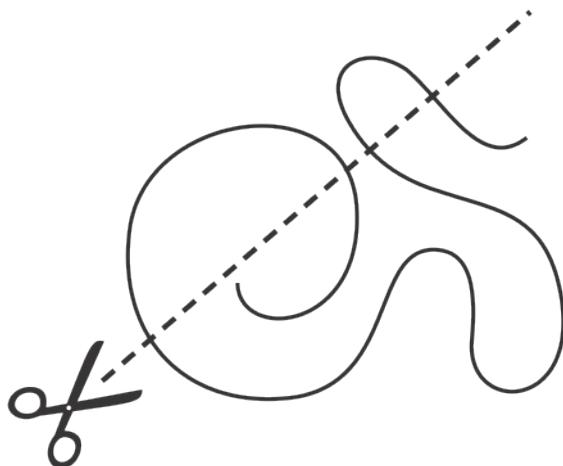
图中的蛋糕被切后平分给了几位小朋友。每一位小朋友都获得了一块有三颗樱桃的蛋糕。请问共有几位小朋友？



4. If we cut along the dotted line, how many parts will the rope split into?

Jika kita memotong mengikut garisan putus-putus, berapakah bahagian tali yang akan terhasil?

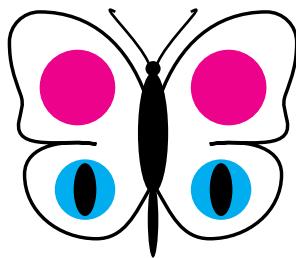
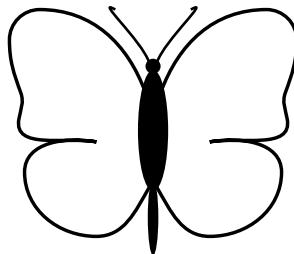
请问如果我们依着这条直线剪，这条绳子会被切成几个部分？



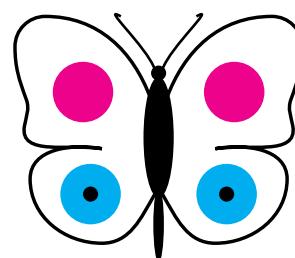
5. Ellen wants to decorate the butterfly with the given stickers. Which butterfly can she make?

Ellen mahu menghias rama-rama berikut menggunakan pelekat yang diberikan. Rama-rama yang manakah boleh dibuatnya?

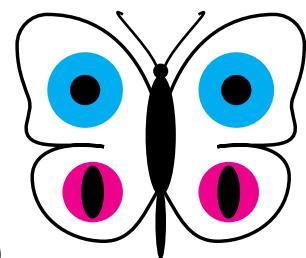
Ellen 想要用这些贴纸设计这只蝴蝶。请问她可以设计出哪只蝴蝶？



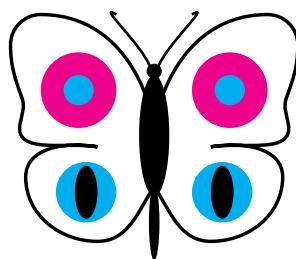
(A)



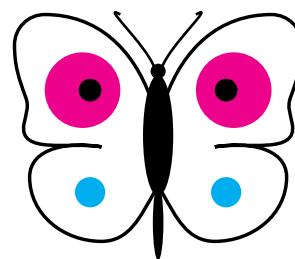
(B)



(C)



(D)

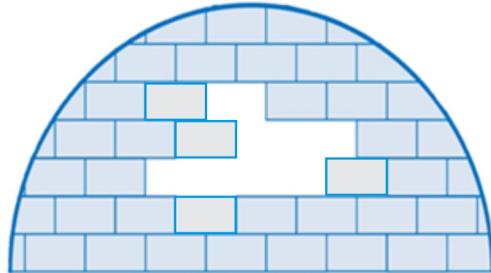


(E)

6. How many bricks like this are missing in the igloo?

Berapakah bilangan bata berbentuk seperti ini  yang hilang dari iglu tersebut?

请问这个雪屋缺少几个像  这样的砖块？



7. In the picture we see a string with four beads. Which of the strings below is the same string?

Seutas gelang dengan empat biji manik ditunjukkan pada gambar berikut. Gelang yang manakah sama dengan gelang pada gambar tersebut?

图中我们看见一条线串着四颗珠子。请问以下哪条线与这条线相同？



- The diagram illustrates five different conformations (A through E) of a ring polymer consisting of five monomers. The monomers alternate between a dark grey circle and a light grey circle. In (A), the dark monomers are at positions 1 and 3. In (B), they are at positions 1 and 4. In (C), they are at positions 2 and 4. In (D), they are at positions 1 and 5. In (E), they are at positions 3 and 5.

8. We choose four numbers from 1, 3, 4, 5, and 7. We write one number in each square so that the equation is correct. Which number is not chosen?

Kita memilih empat nombor daripada 1, 3, 4, 5, dan 7. Kita tuliskan satu nombor di dalam setiap kotak berikut supaya persamaan tersebut benar. Nombor manakah yang tidak dipilih?

我们从 1、3、4、5 和 7 中选四个数字。然后，我们在每一个格子里写上一个数字，让这个等式变得正确。请问哪个数字没被选中？

$$\boxed{\quad} + \boxed{\quad} = \boxed{\quad} + \boxed{\quad}$$

(A) 1

(B) 3

(C) 4

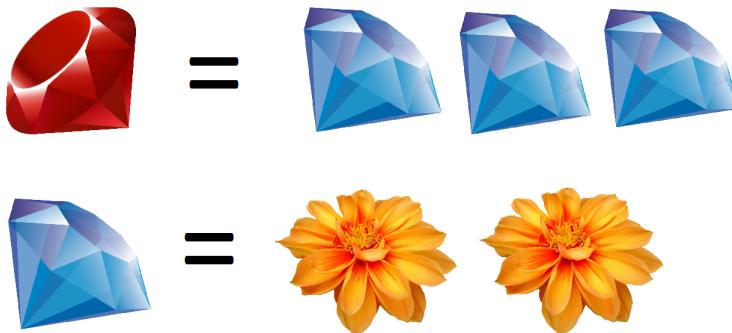
(D) 5

(E) 7

9. In the country of Gemland you can trade three diamonds for one ruby, or one diamond for two flowers. How many flowers can be traded for two rubies?

Di negara Gemland kita boleh tukarkan tiga berlian untuk satu delima, atau satu berlian untuk dua bunga. Berapakah bilangan bunga yang boleh didapati dengan menukarkan dua delima?

在宝石城这个国家里，你可以用一颗红宝石换取三颗钻石，或者用一颗钻石换取两朵花。请问两颗红宝石可以换取几朵花？



(A) 6

(B) 8

(C) 10

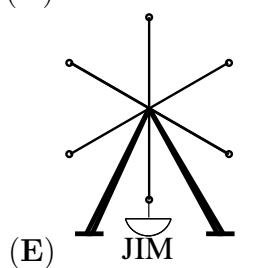
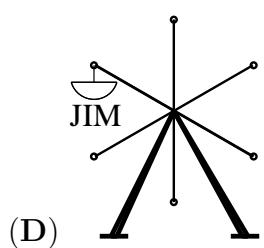
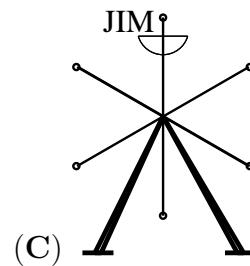
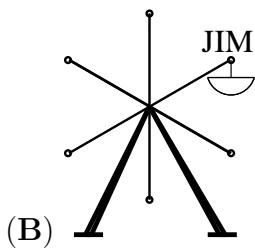
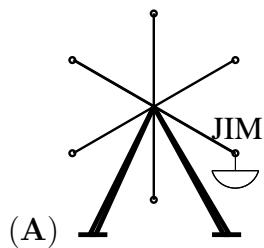
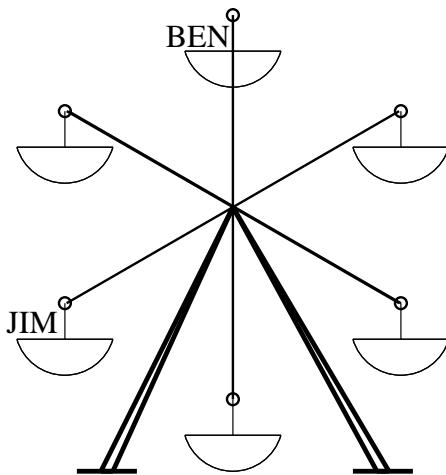
(D) 12

(E) 14

10. Jim and Ben sat on the Ferris wheel as in the picture below. The Ferris wheel turned and Ben was moved to the place where Jim was before. At that moment, where was Jim?

Jim dan Ben duduk di atas roda Ferris seperti pada gambar di bawah. Roda Ferris tersebut berputar dan kedudukan Ben telah berubah ke kedudukan Jim yang asal. Di manakah kedudukan Jim sekarang?

如图所示, Jim 和 Ben 坐在摩天轮上。摩天轮旋转后, Ben 已经被移到 Jim 原本的位置上。请问这时候 Jim 在哪里?

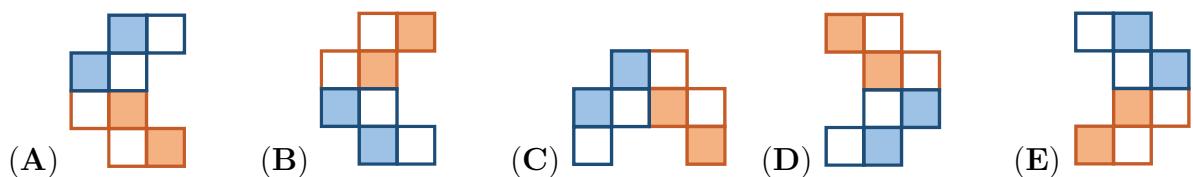
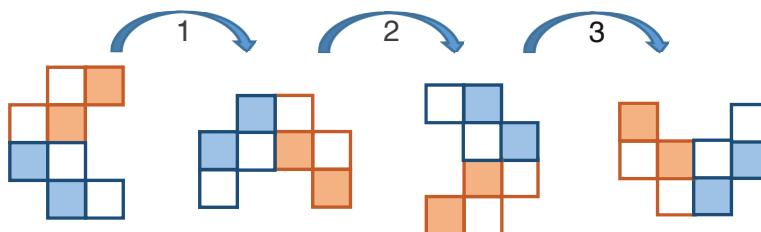


4 points

11. Alfred is rotating a shape six times. The first three rotations are shown in the picture. How does the shape look like at the end?

Alfred memutarkan suatu bentuk sebanyak enam kali. Tiga putaran yang pertama ditunjukkan pada gambar berikut. Bagaimakah rupa bentuk tersebut pada akhirnya?

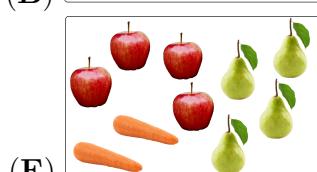
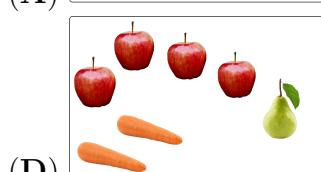
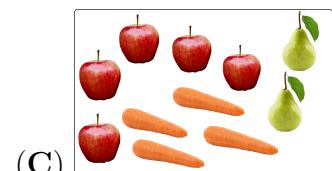
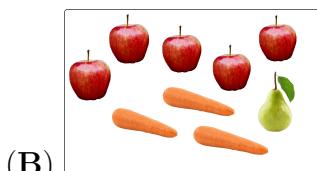
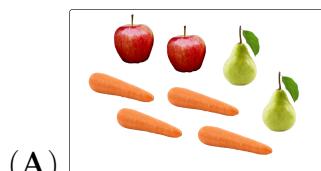
Alfred 正在旋转着一个形状六次。前三次的旋转已经被显示在图中。请问那个形状最后看起来是怎样的？



12. Which picture has twice as many apples as there are carrots, and twice as many carrots as there are pears?

Gambar yang manakah menunjukkan bilangan epal dua kali ganda bilangan lobak merah, dan bilangan lobak merah dua kali ganda bilangan pear?

请问以下哪个图片中苹果的数量是萝卜的数量的两倍，并且萝卜的数量是梨的数量的两倍？



13. Brian and William stand in line. Brian knows that there are 7 people in front of him. William knows that there are 11 people in the line. If Brian is just in front of William, how many people in the line are behind William?

Brian dan William berdiri dalam satu barisan. Brian mengetahui bahawa terdapat 7 orang di hadapannya. William mengetahui bahawa terdapat 11 orang dalam barisan tersebut. Jika Brian berdiri betul-betul di hadapan William, berapakah bilangan orang yang berdiri di belakang William?

Brian 和 William 在一起排队。Brian 知道他前面有 7 个人。William 知道这一排总共有 11 个人。请问如果 Brian 是站在 William 前面的那一位，那么有多少人站在 William 的后面？

(A) 2

(B) 3

(C) 4

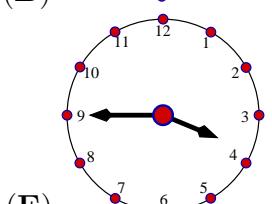
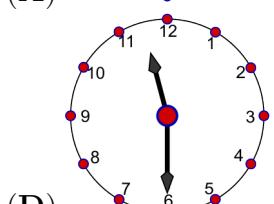
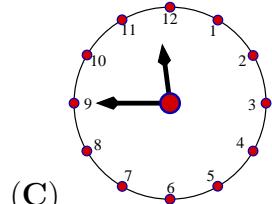
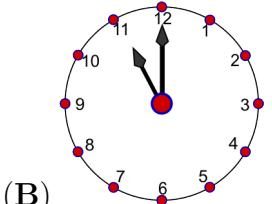
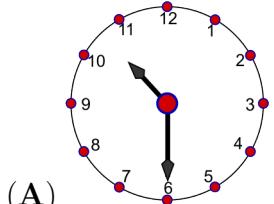
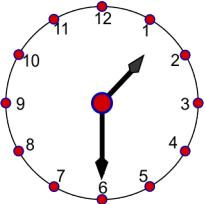
(D) 5

(E) 6

14. Now it is half past one o'clock. What time was it two and a half hours ago?

Waktu sekarang menunjukkan jam satu setengah. Apakah waktu pada dua jam setengah yang lalu?

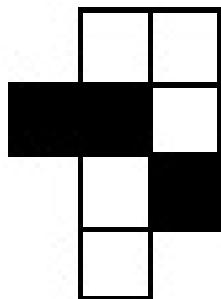
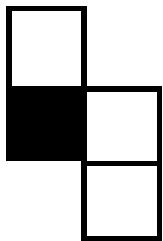
现在是一点半。请问两个半小时之前是什么时间？



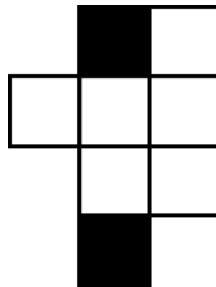
15. Sepehr has two paperboards. He colored one side of each paperboard like the following. Which shape can he make using both paperboards?

Sepehr mempunyai dua keratan kertas. Dia mewarnakan satu permukaan pada setiap keratan tersebut seperti gambar di bawah. Bentuk yang manakah boleh dibuatnya dengan menggunakan kedua-dua keratan kertas tersebut?

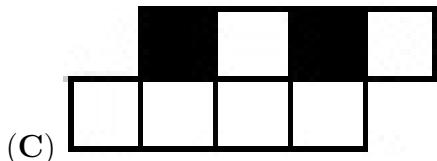
Sepehr 有两张卡片。他把每张卡片的其中一面涂成下图的样子。请问他可以用这两张卡片排成怎样的形状？



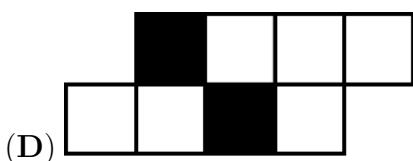
(A)



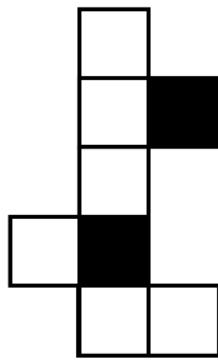
(B)



(C)



(D)



(E)

16. A kangaroo makes 10 jumps in 1 minute and rests for 3 minutes. Then he again makes 10 jumps in 1 minute and rests for 3 minutes, and so on. What is the least amount of minutes that he needs to make 30 jumps?

Seekor kangguru membuat 10 lompatan dalam masa 1 minit dan berehat selama 3 minit. Kemudian, ia membuat 10 lompatan lagi dalam masa 1 minit dan berehat selama 3 minit, dan begitulah seterusnya. Berapakah jumlah minit yang paling sedikit untuk ia melakukan 30 lompatan?

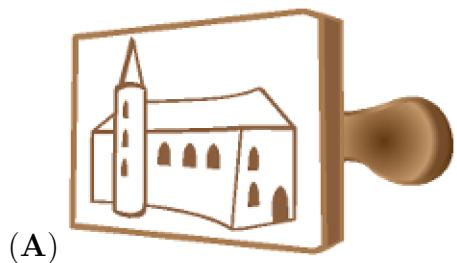
一只袋鼠在 1 分钟内跳 10 次后再休息 3 分钟。然后，它又在 1 分钟内跳 10 次后再休息 3 分钟，以此类推。请问它需要最少多少分钟来跳 30 次？



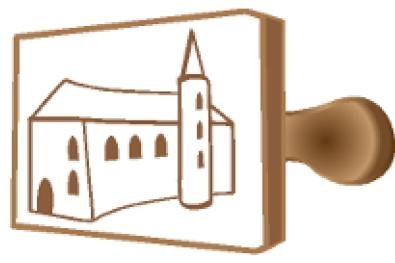
17. Which stamp has been used to get the picture below?

Cop yang manakah telah digunakan untuk mendapatkan gambar di bawah?

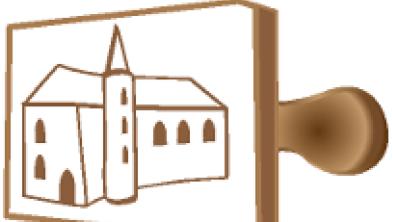
请问哪个印章可以印出下图?



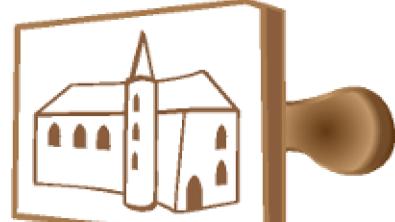
(A)



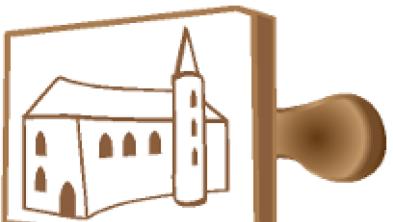
(B)



(C)



(D)

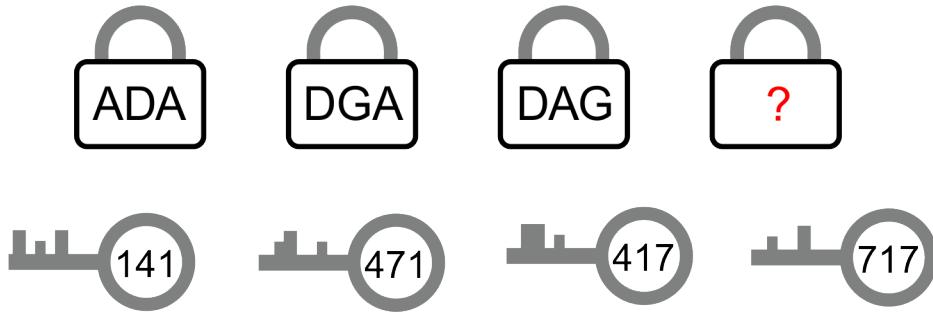


(E)

18. Each of the 4 keys fits one of the 4 padlocks. The numbers on the keys refer to the letters on the padlocks. What is written on the last padlock?

Setiap satu kunci yang berikut hanya boleh membuka satu mangga. Nombor-nombor pada kunci tersebut merujuk kepada huruf-huruf pada mangga. Apakah yang tertulis pada mangga yang terakhir?

每一把钥匙可以打开其中一把锁。钥匙上的号码代表着锁上的字母。请问最后一把锁上写着什么？



- (A) GDA (B) ADG (C) GAD (D) GAG (E) DAD

19. In Old McDonald's barn there are one horse, two cows and three goats. How many more cows does the barn need so that the number of all animals is twice the number of cows?

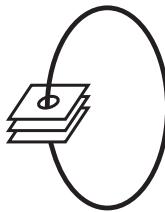
Di kandang Old McDonald terdapat seekor kuda, dua ekor lembu dan tiga ekor kambing. Berapakah bilangan lembu yang perlu ditambah supaya bilangan semua haiwan adalah dua kali ganda bilangan lembu?

在 Old McDonald 的农场里养着一匹马、两头牛和三只羊。请问农场还需要多少头牛才能使到所有动物的总数量是牛的总数量的两倍？

20. Given three cards with holes. The top of each card is white and the bottom is grey. Basil puts a string through the holes, as in the figure below. By arranging the cards, which figure is possible to get?

Terdapat tiga keping kad yang berlubang. Permukaan atas setiap kad berwarna putih dan permukaan bawah pula berwarna kelabu. Basil memasukkan tali melalui lubang-lubang tersebut, seperti pada gambar di bawah. Dengan menyusun kad-kad tersebut, gambar yang manakah boleh didapati?

给定三张有洞的卡片。每一张卡片上面是白色的，下面是灰色的。如图所示，Basil 把一条线穿过每一个洞。请问他通过排列那些卡片，有可能获得以下哪一项？



- (A) 

(B) 

(C) 

(D) 

(E) 

END OF PAPER

答案：DCBAAAECDAEDABCDEE