



KANGAROO MATH COMPETITION MALAYSIA 2015

INSTRUCTIONS

Time allowed: 75 minutes.

Languages: English, Bahasa Malaysia & Mandarin.

There are 20 questions in the PreEcolier and Ecolier papers.

There are 24 questions in the Benjamin, Cadet, Junior and Student papers.

Problems 1 to 10 are worth 3 points each.

Problems 11 to 20 are worth 4 points each.

Problems 21 to 24 are worth 5 points each.

No point will be deducted for an incorrect answer.

Do not open this booklet until you are told to do so.

Fill in your particulars on the answer sheet.

Mark your answers clearly on the answer sheet using a 2B pencil.

There are some blank pages at the back of the booklet; you may use them as scratch paper. **Calculator cannot be used during competition.**

Kangaroo papers are being taken by more than 6 million students worldwide.

It is forbidden to discuss or publish the problems online until one month after the contest date.

GOOD LUCK

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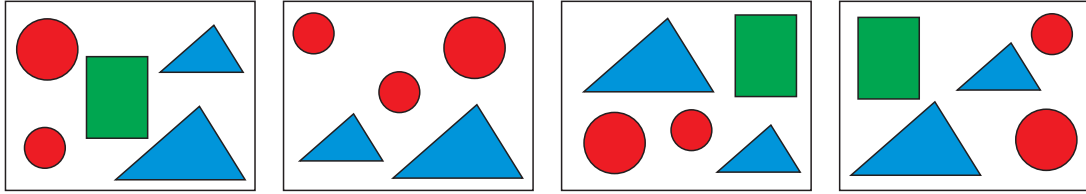
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3 points

1. Which figure is not in each of four pictures?

Bentuk yang manakah tidak terdapat dalam semua gambar?

哪一个图形不出现在四张图的每一张中?

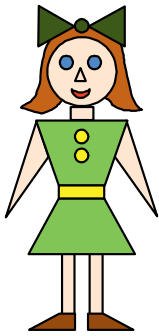


- (A)  (B)  (C)  (D)  (E) 

2. How many triangles are there in the picture?

Berapakah bilangan segitiga di dalam gambar berikut?

图中有多少个三角形?

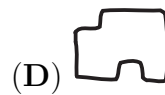
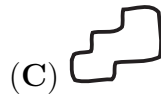
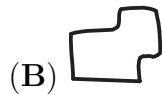
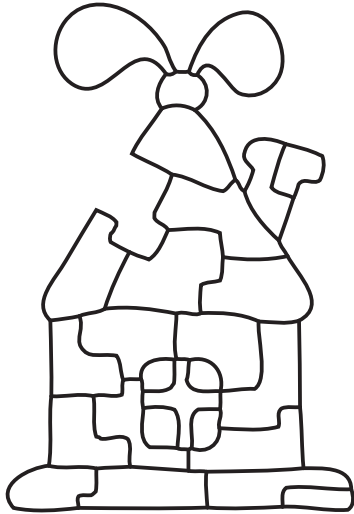


- (A) 7 (B) 6 (C) 5 (D) 4 (E) 3

3. Find the missing part of the house.

Tentukan bahagian rumah yang hilang.

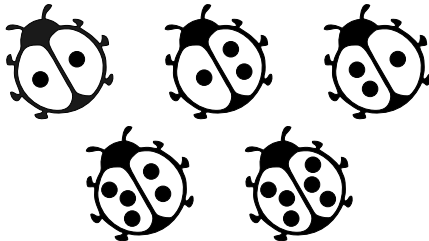
找出房子失踪的部分。



4. Five lady-birds live on a bush. In total, how many spots do the lady-birds have?

Lima ekor kumbang tinggal di dalam semak. Secara keseluruhan, terdapat berapa bintik pada kumbang-kumbang tersebut?

五只瓢虫住在一株灌木上。问它们共有多少个斑点？



(A) 17

(B) 18

(C) 19

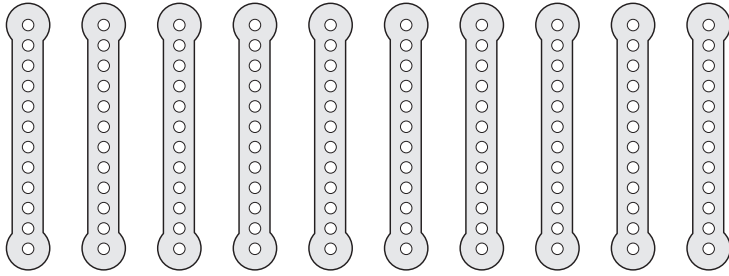
(D) 20

(E) 21

5. Eric had 10 equal metal strips.

Eric mempunyai 10 kepingan besi yang serupa.

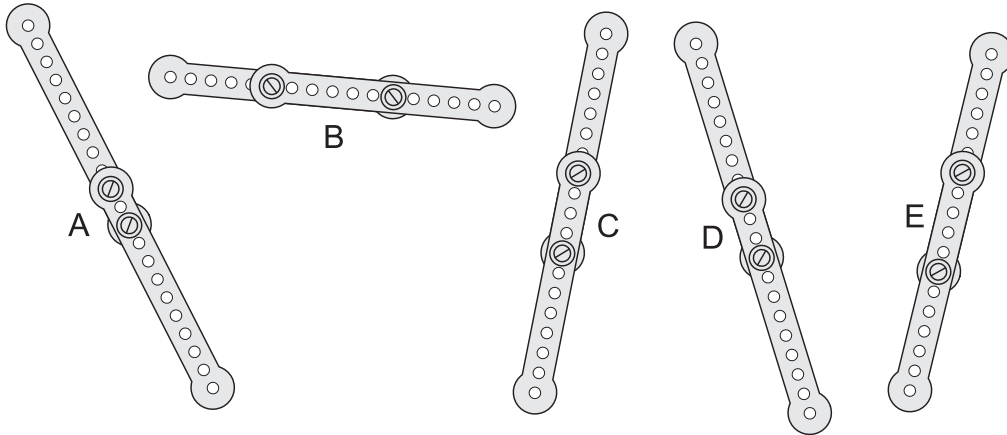
Eric有十条一模一样的金属条。



He has screwed pairs of them together into five long strips.

Dia menyambungkan kepingan tersebut secara berpasangan menjadi lima kepingan yang panjang.

他将它们成对拧成5条长金属条。



Which strip is the shortest?

Kepingan manakah yang paling pendek?

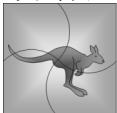
哪一条金属条最短？

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

6. Which of the following pictures can be rotated so that it will coincide with the picture below?

Yang manakah di antara gambar-gambar berikut boleh diputar menjadi gambar di bawah?

下列哪一张图可在旋转后得到右图？

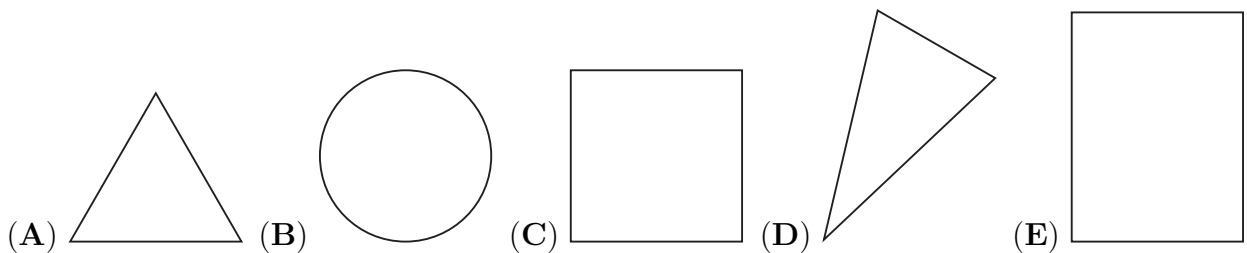
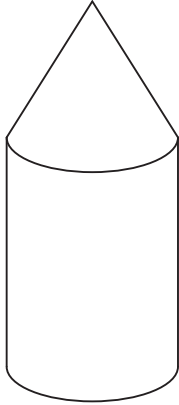


- (A) (B) (C) (D) (E)

7. What does the round tower looks like from above?

Apakah rupa menara bulat ini jika dilihat dari atas?

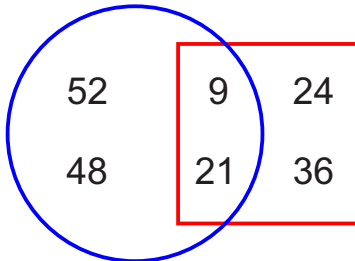
此圆塔从上方看像什么?



8. What is the sum of the numbers outside the square?

Apakah hasil tambah nombor-nombor yang berada di luar segiempat sama berikut?

求正方形外的数字之和?



- (A) 30 (B) 60 (C) 90 (D) 45 (E) 100

9. It takes half an hour for Jenny to go half of the way from school to home. How long does it take, in minutes, for Jenny to go to school from home?

Jenny mengambil masa setengah jam untuk pergi separuh perjalanan dari sekolah ke rumah. Berapa lamakah masa yang diambil, dalam minit, oleh Jenny untuk pergi ke sekolah dari rumah?

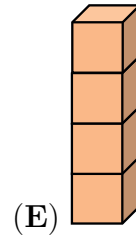
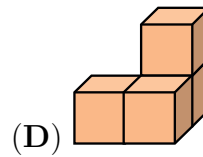
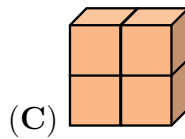
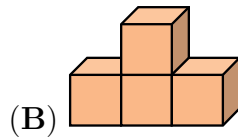
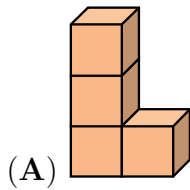
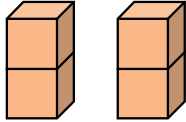
Jenny需花半小时完成从学校回家的一半路程。Jenny需花多久从家到学校?

- (A) 15 (B) 30 (C) 60 (D) 120 (E) 40

10. Don made two bricks by sticking two cubes together. Which construction cannot be built of these two bricks?

Don membuat dua buah bata dengan mencantumkan dua buah kiub. Bentuk yang manakah tidak dapat dibina menggunakan dua buah bata ini?

Don制了两个由两个正方体粘成的砖块。哪个构造不能用这两个砖块建成？



4 points

11. Marko has 9 sweets and Tomo has 17 sweets. How many sweets does Tomo need to give to Marko so that each boy has the same number of sweets?

Marko ada 9 biji gula-gula manakala Tomo ada 17 biji gula-gula. Berapakah bilangan gula-gula yang harus Tomo berikan kepada Marko supaya mereka mempunyai bilangan gula-gula yang sama?

Marko有9粒糖果，Tomo有17粒。Tomo需给Marko多少粒糖果，才能让他俩有一样多的糖果？

(A) 2

(B) 3

(C) 4

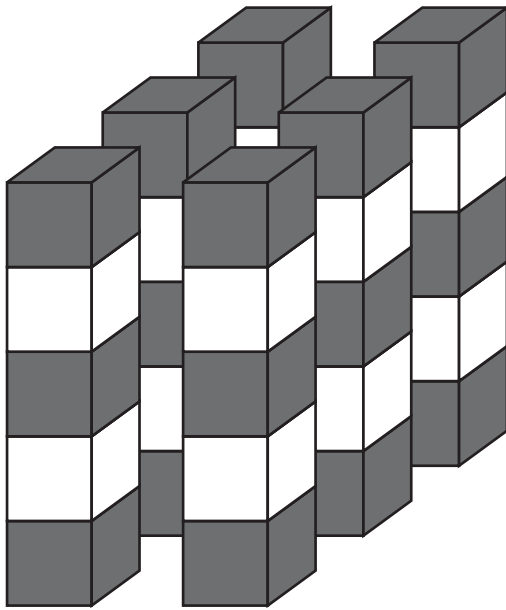
(D) 5

(E) 6

12. Six towers are built with grey cubes and white cubes. Each tower is made with five cubes. Cubes of the same colors do not touch. How many white cubes are there?

Enam menara dibina menggunakan kiub kelabu dan kiub putih. Setiap menara dibina menggunakan lima biji kiub. Kiub yang sama warna tidak bersentuhan. Berapakah bilangan kiub putih yang digunakan?

六座塔用灰正方体和白正方体所建成。每座塔由五个正方体所建成。同色正方体互不相触。问共有多少个白正方体？

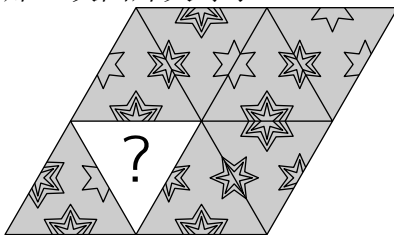


- (A) 10 (B) 11 (C) 12 (D) 18 (E) 30

13. Which piece is missing?

Bentuk manakah yang dihilangkan?

那一块图片失踪了？



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

14. The date 5/5/2015 has three 5's. The earliest date that will have three 5's again is:

Terdapat tiga nombor 5 pada tarikh 5/5/2015. Tarikh terawal seterusnya yang juga mempunyai tiga nombor 5 ialah:

日期5/5/2015有三个5。再一次有三个5的最早日期是:

- (A) 5/5/2025 (B) 15/6/2055 (C) 15/5/2050 (D) 25/5/2015 (E) 15/5/2015

15. Mother ordered 2 pizzas and sliced each of them into 8 pieces for Vera's birthday. There were 14 children at the party including Vera. How many slices are left over if mother gives one slice to each child?

Ibu memesan 2 keping pizza dan memotong setiap pizza tersebut menjadi 8 bahagian untuk hari jadi Vera. Terdapat 14 kanak-kanak, termasuk Vera, yang menghadiri parti itu. Berapakah bahagian pizza yang tinggal sekiranya Ibu memberi satu bahagian pizza kepada setiap kanak-kanak?

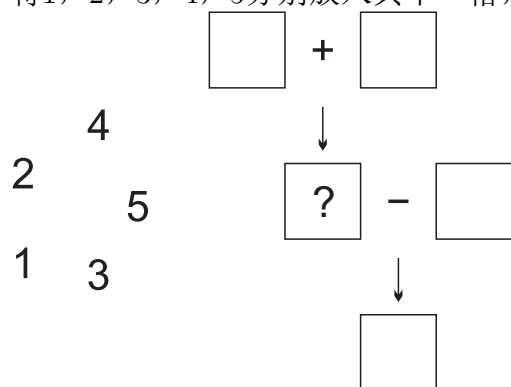
为了Vera的生日，妈妈买了两个比萨，并将两个比萨都切成八块。包括Vera，派对中一共有14个儿童。若妈妈给每个儿童一块比萨，还剩多少块比萨？

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

16. Place each of the numbers 1, 2, 3, 4, 5 into one box so that everything is correct. Which number goes to the box marked with question mark?

Letakkan setiap nombor 1, 2, 3, 4, 5 ke dalam satu petak supaya semua pengiraan menjadi benar. Nombor manakah yang diletakkan di dalam kotak yang mengandungi tanda soal?

将1, 2, 3, 4, 5分别放入其中一格，使得全部正确。哪个数字会放入标有问号的格里？



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

17. There were 11 flags on a straight track of a race. The first one was at the start, the last one at the finish. The distance between each flag was 8 meters. How long was the track, in meters?

Terdapat 11 bendera di sepanjang sebuah trek lumba yang lurus. Bendera pertama terpacak di garisan permulaan, bendera terakhir di garisan penamat. Jarak di antara setiap bendera ialah 8 meter. Berapakah panjang trek lumba itu, dalam meter?

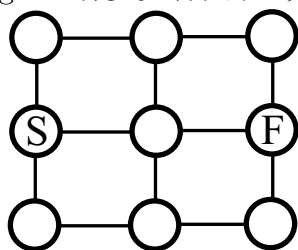
笔直的跑道上11面旗。第一面在起点上，最后一面在终点上。每面旗之间的距离是8m。问跑道多长？

- (A) 24 (B) 48 (C) 72 (D) 80 (E) 88

18. The Kangaroo jumps from circle S along the line to the next circle in one jump. It is not allowed to jump into any circle more than once. In how many different ways, by taking only 4 jumps, can the Kangaroo reach circle F?

Seekor Kangaru melompat dari bulatan S sepanjang garisan untuk sampai ke bulatan seterusnya. Ia tidak boleh melompat ke bulatan yang sama lebih dari sekali. Berapakah cara untuk Kangaru sampai ke bulatan F menggunakan 4 kali lompatan?

Kangaroo从圆圈S开始沿着线跳到下一个圆圈里。一个圆圈不能被跳进超过一次。Kangaroo有多少种只跳4次就抵达圆圈F的不同方式？



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

19. A group of sailors are climbing a ladder to get on a ship. On the ladder, the captain is in the middle and the eighth one from the beginning. How many people are on the ladder?

Sekumpulan anak kapal sedang memanjat tangga untuk menaiki sebuah kapal. Di atas tangga tersebut, kapten kapal berada di posisi tengah dan yang kelapan daripada hadapan. Berapa orangkah yang sedang memanjat tangga itu?

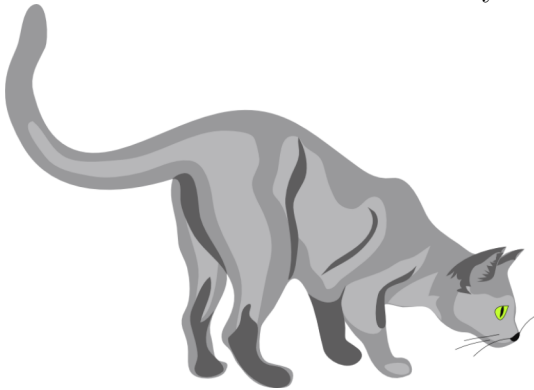
一群水手为了上船而在爬梯子。梯子上，船长是在中间，也是从前面算起的第八个。有多少人在梯子上？

- (A) 7 (B) 8 (C) 12 (D) 15 (E) 16

20. During 3 days Joy the cat was catching mice. Each next day Joy caught 2 mice more than in the previous day. On the third day Joy has caught twice as many mice as on the first day. In total, how many mice did Joy catch during the three days?

Joy si kucing menangkap tikus selama 3 hari. Setiap hari, Joy menangkap 2 ekor tikus lebih daripada yang ditangkapnya pada hari sebelumnya. Pada hari ketiga, Joy menangkap 2 kali lebih banyak tikus berbanding pada hari pertama. Secara keseluruhan, berapakah bilangan tikus yang ditangkap oleh Joy dalam tempoh tiga hari tersebut?

Joy这只猫在三天中抓老鼠。每一个接下来的天Joy都比前一天多抓2只老鼠。Joy在第三天抓的老鼠的数量是第一天的两倍。Joy在这三天中抓了多少只老鼠？



(A) 12

(B) 15

(C) 18

(D) 20

(E) 24

END OF PAPER