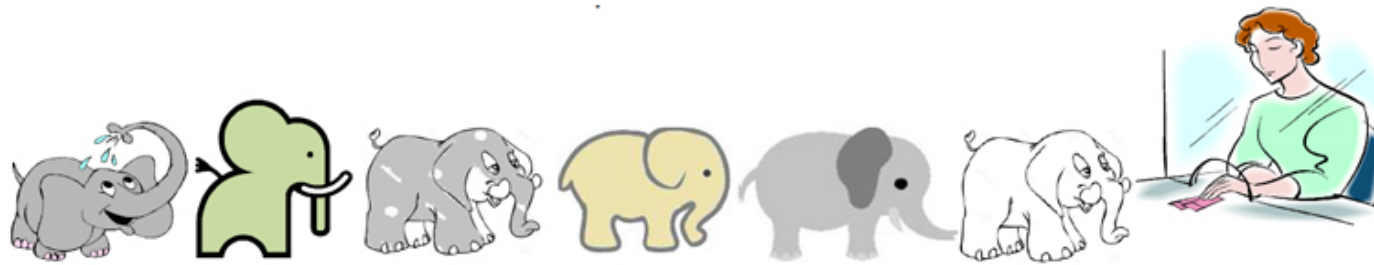


Six little elephants, A, B, C, D, E, F, are lining up to buy tickets. F is after A and before D and he is also between B and C; B is the first in the line; and E is the last in the line. Which elephant is F?



A) the 2nd

B) the 3rd

C) the 4th

D) the 5th

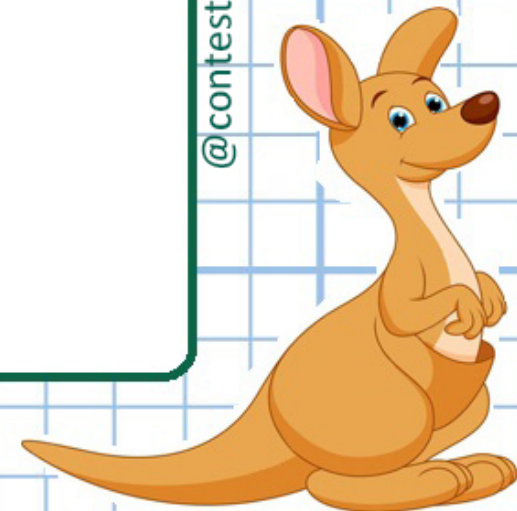
E) the 6th

Grade 2. 4 points

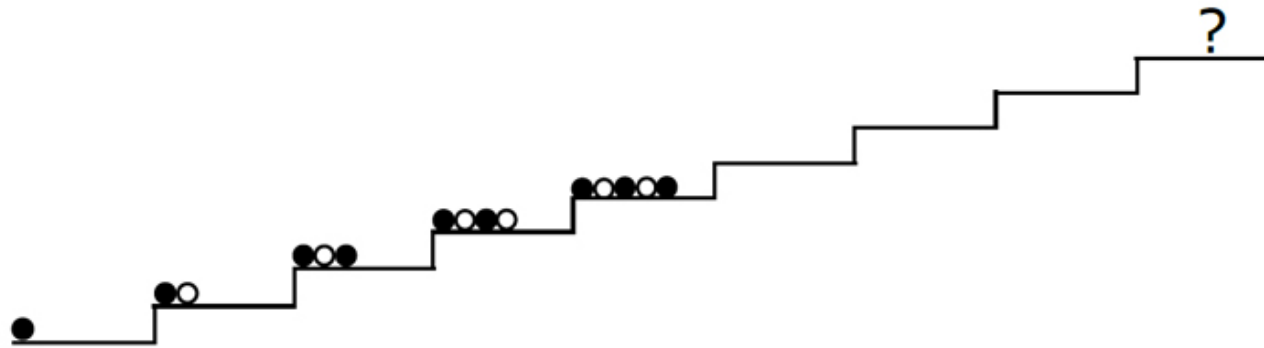
<http://olympia.uz/>

@contest_kenguru_uz

*Join us in preparation for
the Kangaroo contest*



Sophie is arranging black and white marbles following the pattern shown in the picture.



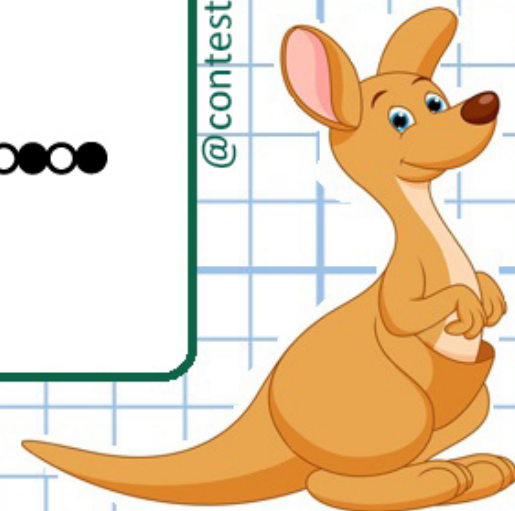
How will the marbles appear on the top level where the question mark ? is located?

- A) ●○○●○○●○○● B) ○●○○●○○●○○ C) ●○○●○○●○○●
- D) ●○○●○○●○○● E) ●○○●○○●○○●○○

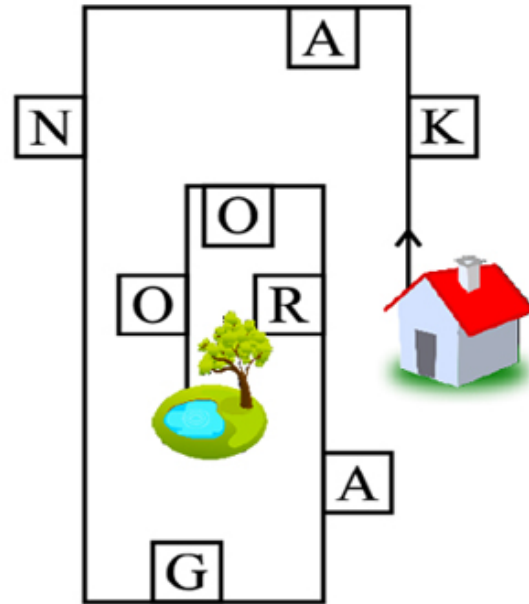
Grade 2. 4 points

@contest_kenguru_uz http://olympia.uz/

*Join us in preparation for
the Kangaroo contest*



Mary is walking along the road from the house to the pond.



She is writing down on a piece of paper only the letters that appear on her right-hand side. What will she write down?

- A) KNAO B) KNGO C) KNR D) AGRO E) KAO

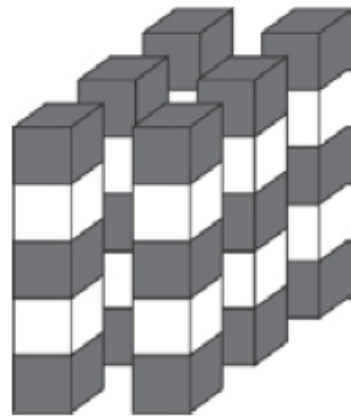
@contest_kenguru_uz <http://olympia.uz/>

*Join us in preparation for
the Kangaroo contest*



Grade 2. 4 points

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



A) 10

B) 11

C) 12

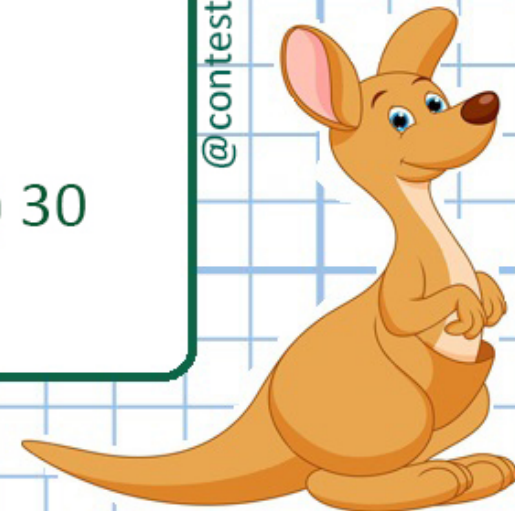
D) 18

E) 30

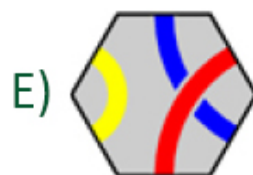
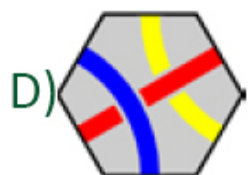
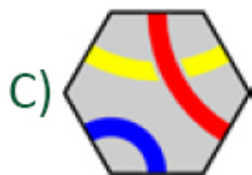
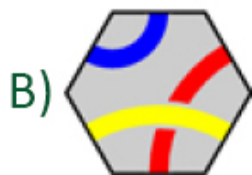
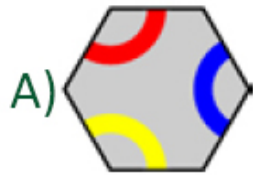
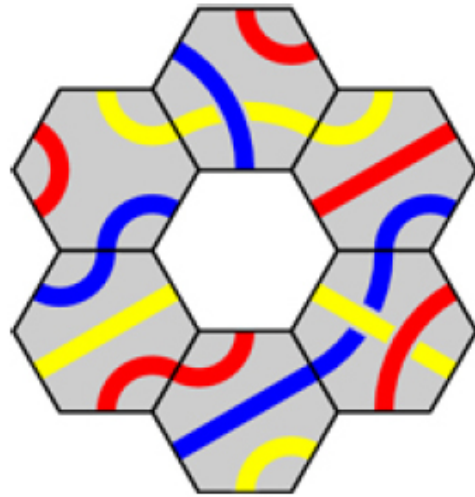
Grade 2. 4 points

<http://olympia.uz/>
[@contest_kenguru_uz](http://contest_kenguru_uz)

*Join us in preparation for
the Kangaroo contest*

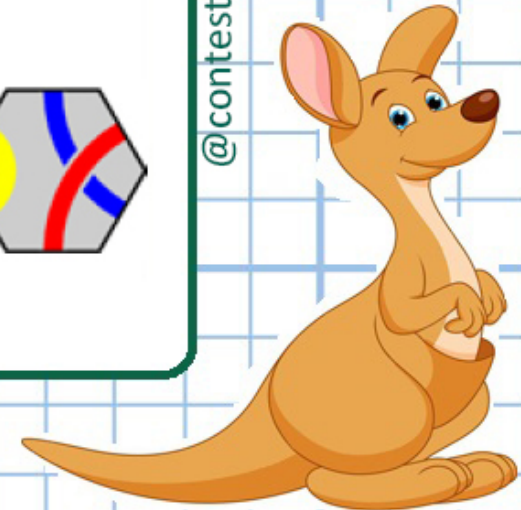


Which tile fits in the middle such that lines of the same colour are joined together?



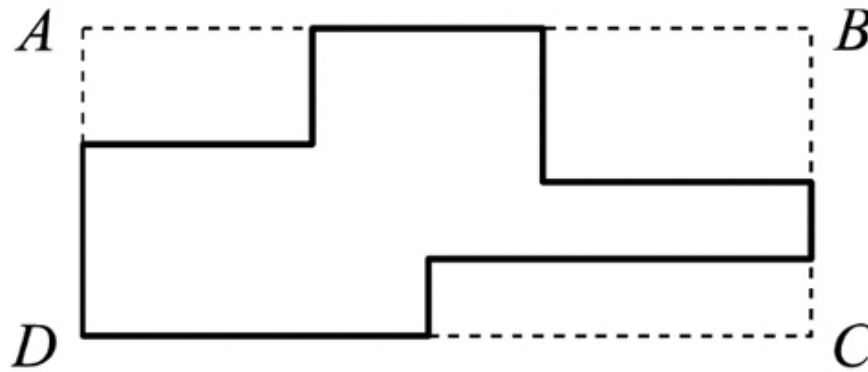
@contest_kenguru_uz <http://olympia.uz/>

*Join us in preparation for
the Kangaroo contest*



Grade 3-4. 4 points

The perimeter of the rectangle ABCD is 30 cm. Lisa cut off three rectangles as shown.



She found that the sum of the three perimeters is equal to 20 cm. What is the perimeter of the figure obtained after the cutting?

- A) 50 cm B) 40 cm C) 30 cm D) 10 cm
E) impossible to determine

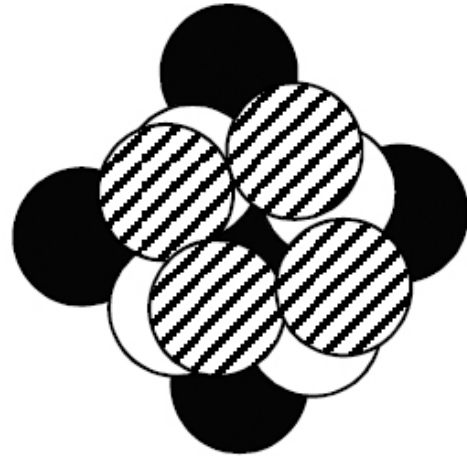
@contest_kenguru_uz <http://olympia.uz/>

*Join us in preparation for
the Kangaroo contest*



Grade 3-4. 4 points

Mary had equal numbers of white, black and striped tokens. She used some of the tokens to make the pile shown in the figure.



She still has five tokens which are not in the pile. How many black tokens did she have in total?

- A) 5 B) 6 C) 7 D) 10 E) 15

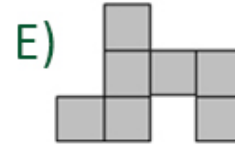
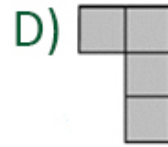
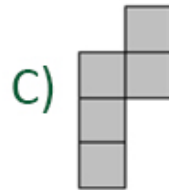
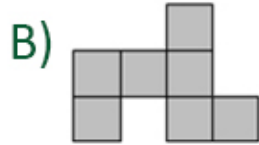
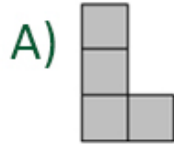
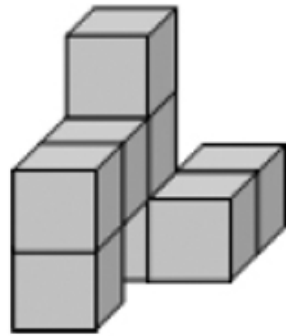
Grade 3-4. 4 points

@contest_kenguru_uz http://olympia.uz/

*Join us in preparation for
the Kangaroo contest*

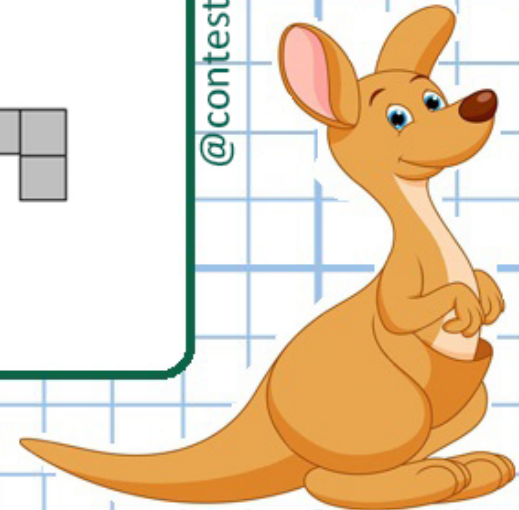


The solid in the picture was made by sticking eight equal cubes together. What does this solid look like when seen from above?



<http://olympia.uz/>
[@contest_kenguru_uz](http://contest_kenguru_uz)

*Join us in preparation for
the Kangaroo contest*



Grade 3-4. 4 points

There are 5 ladybugs shown in the figure. Two ladybugs are friends with each other if the numbers of spots that they have differ exactly by 1.



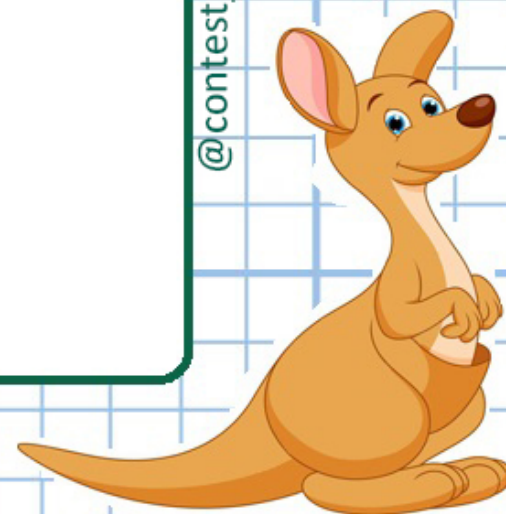
On Kangaroo Day, each of the ladybugs sent one text message to each of their friends.
How many text messages were sent?

- A) 2 B) 4 C) 6 D) 8 E) 9

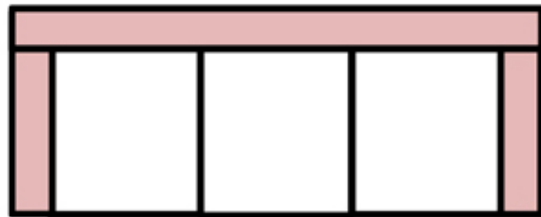
Grade 3-4. 4 points

@contest_kenguru_uz http://olympia.uz/

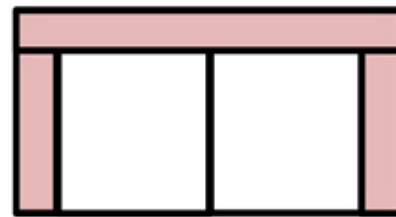
*Join us in preparation for
the Kangaroo contest*



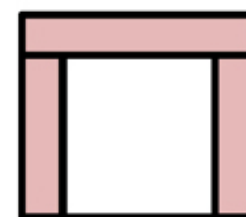
The Modern Furniture store is selling sofas, loveseats, and chairs made from identical modular pieces as shown in the picture. Including the armrests, the width of the sofa is 220 cm and the width of the loveseat is 160 cm.



sofa



loveseat



chair

What is the width of the chair?

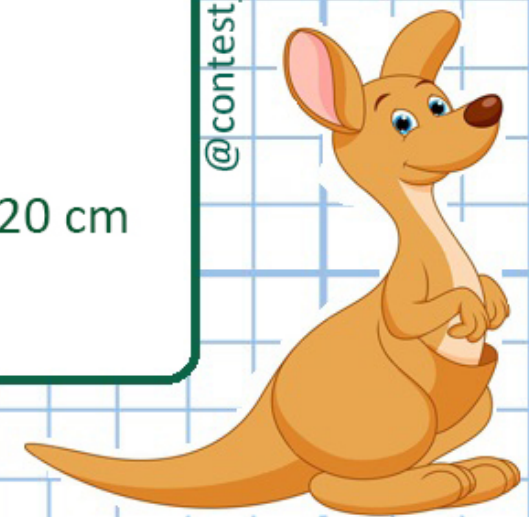
- A) 60 cm B) 80 cm C) 90 cm D) 100 cm E) 120 cm

Grade 5-6. 4 points

<http://olympia.uz/>

@contest_kenguru_uz

*Join us in preparation for
the Kangaroo contest*



Five squirrels A, B, C, D, and E are sitting on the line. There are 6 nuts on the line as well (marked by 'x'). At the same time, and all with the same speed, the squirrels start running to the nearest nut to them. As soon as a squirrel picks a nut it starts running to the next closest nut. Which squirrel will get two nuts?



A) A

B) B

C) C

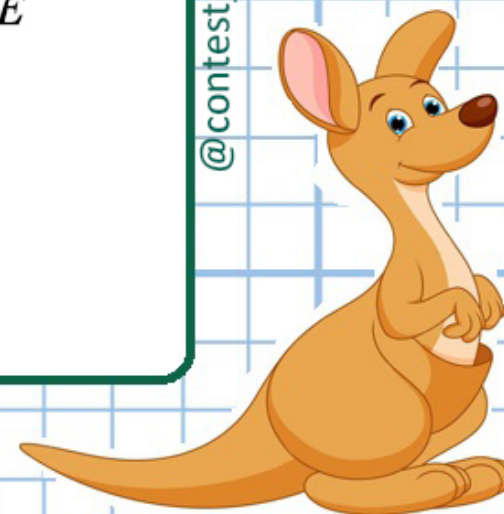
D) D

E) E

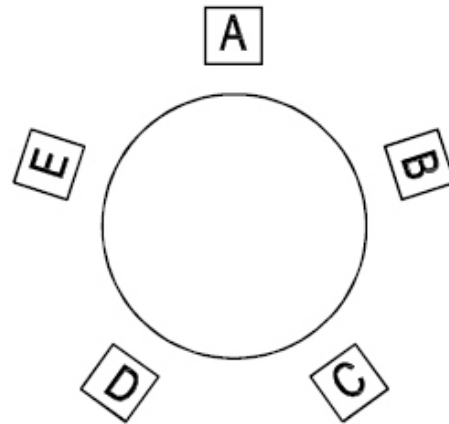
Grade 5-6. 4 points

@contest_kenguru_uz <http://olympia.uz/>

*Join us in preparation for
the Kangaroo contest*



The kangaroos A, B, C, D and E were sitting in this order, clockwise, around a circular table.



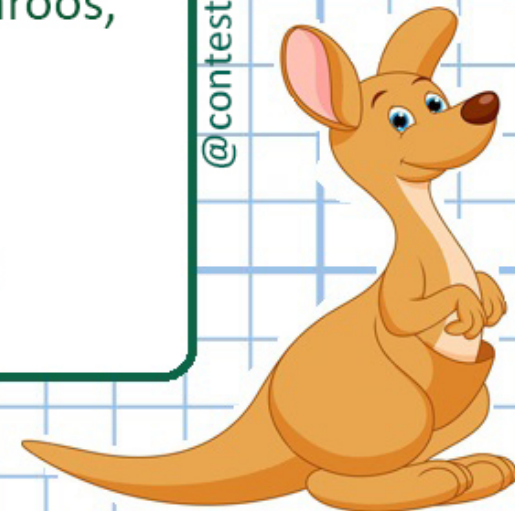
When the bell rang, each kangaroo but one exchanged its position with a neighbour. The order of the kangaroos, clockwise, became A, E, B, D, C. Which kangaroo did not move?

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

Grade 5-6. 4 points

@contest_kenguru_uz <http://olympia.uz/>

*Join us in preparation for
the Kangaroo contest*



A plane takes off from Vienna at 11:00 am local time and arrives in Toronto at 1:00 pm local time. On average, it takes 8 hours for a plane of this type to fly this distance. What time is it in Toronto when it is 7:00 am in Vienna?

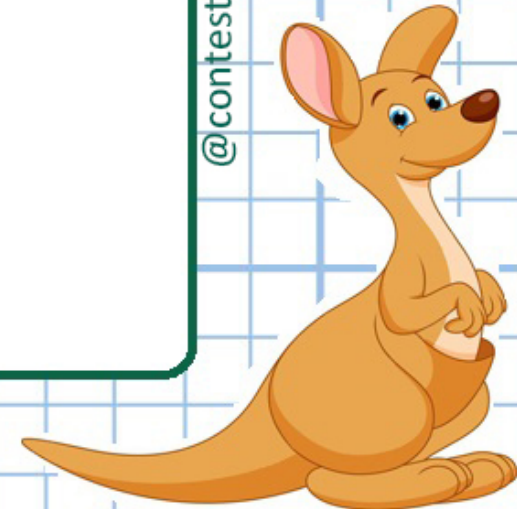


- A) 1:00 pm B) 1:00 am C) 9:00 am
D) 5:00 am E) 3:00 pm

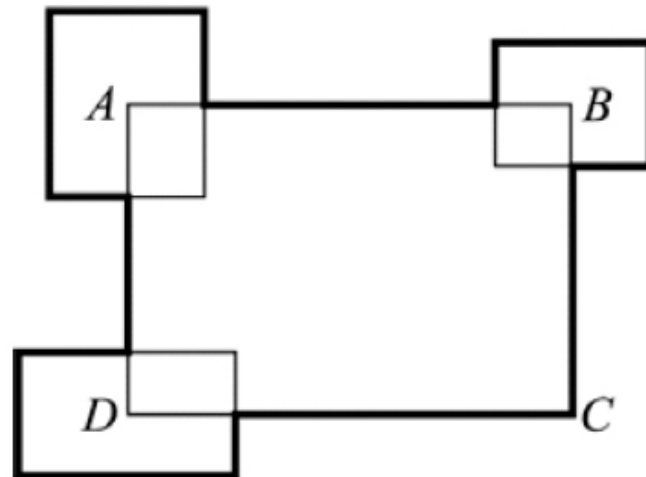
Grade 5-6. 4 points

@contest_kenguru_uz http://olympia.uz/

*Join us in preparation for
the Kangaroo contest*



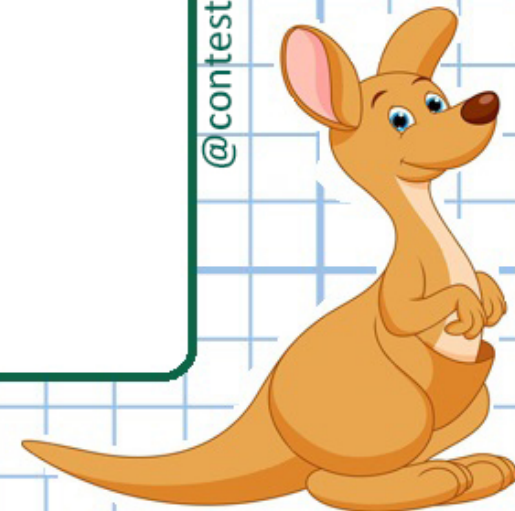
The perimeter of the rectangle ABCD is 30 cm. Three other rectangles are placed so that their centres are at the points A, B, and D (see the figure). The sum of their perimeters is 20 cm. What is the total length of the thick line?



- A) 50 cm B) 45 cm C) 40 cm D) 35 cm
E) impossible to determine

@contest_kenguru_uz <http://olympia.uz/>

*Join us in preparation for
the Kangaroo contest*

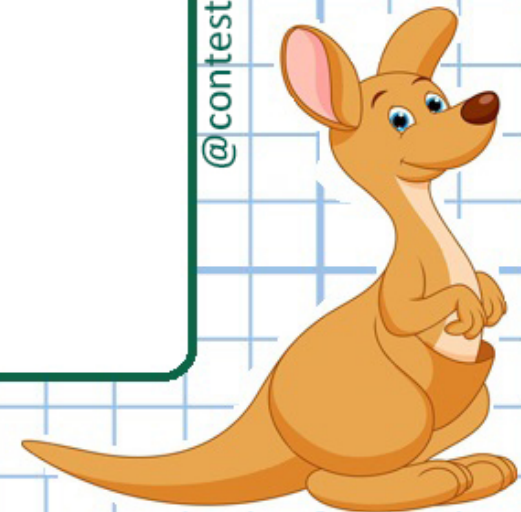


Grade 5-6. 4 points

Each letter in the word BENJAMIN represents one of the digits 1, 2, 3, 4, 5, 6 or 7. Different letters represent different digits. The number BENJAMIN is odd and divisible by 3. Which digit corresponds to the letter N?

- A) 1 B) 2 C) 3 D) 5 E) 7

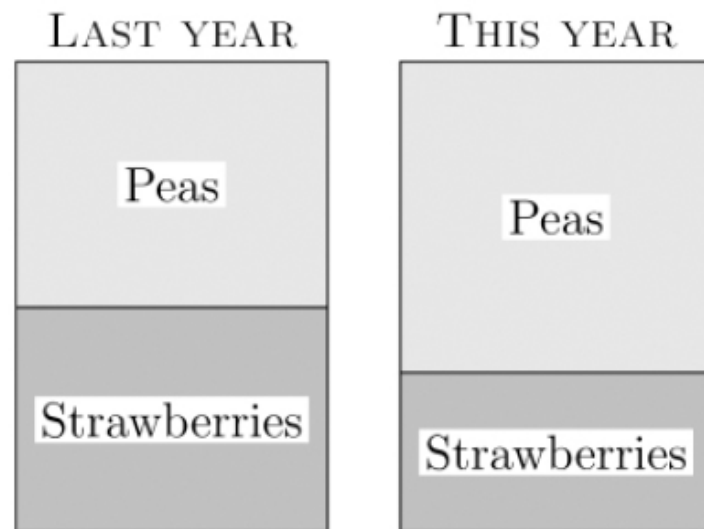
Grade 7-8. 4 points



@contest_kenguru_uz <http://olympia.uz/>

*Join us in preparation for
the Kangaroo contest*

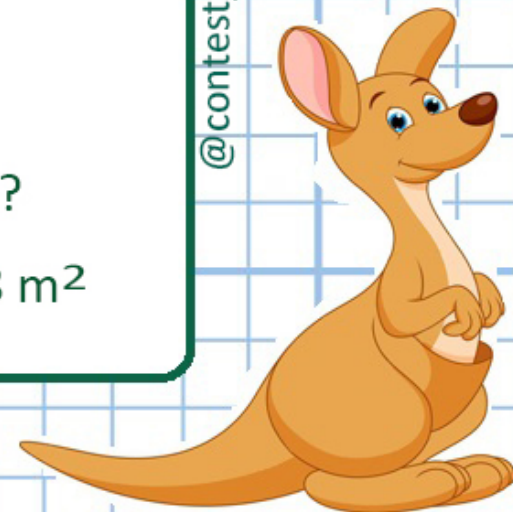
Ms Gardner grows peas and strawberries. This year she has changed the rectangular pea bed to a square by lengthening one of its sides by 3 metres. As a result of this change, the area of the strawberry bed was reduced by 15 m^2 .



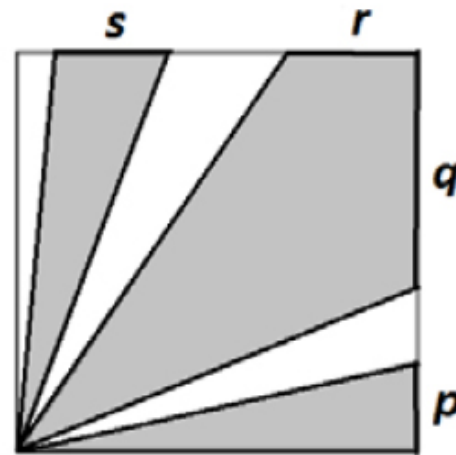
What was the area of the pea bed before the change?

- A) 5 m^2 B) 9 m^2 C) 10 m^2 D) 15 m^2 E) 18 m^2

Grade 7-8. 4 points



Inside a square of area 36, there are shaded regions as shown. The total shaded area is 27.



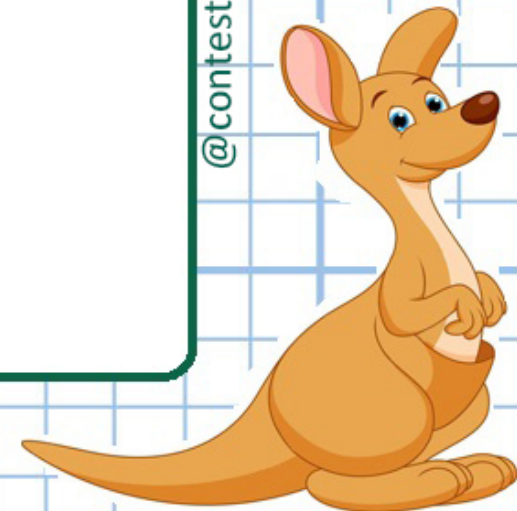
What is the value of $p + q + r + s$?

- A) 4 B) 6 C) 8 D) 9 E) 10

Grade 7-8. 4 points

@contest_kenguru_uz <http://olympia.uz/>

*Join us in preparation for
the Kangaroo contest*



The mean score of the students who took a mathematics test was 6. Exactly 60% of the students passed the test. The mean score of the students who passed the test was 8. What was the mean score of the students who failed the test?

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

Grade 7-8. 4 points

@contest_kenguru_uz <http://olympia.uz/>

*Join us in preparation for
the Kangaroo contest*



If

$$a + 5 = b^2 - 1 = c^2 + 3 = d - 4.$$

Which of the numbers a , b , c , d is the greatest?

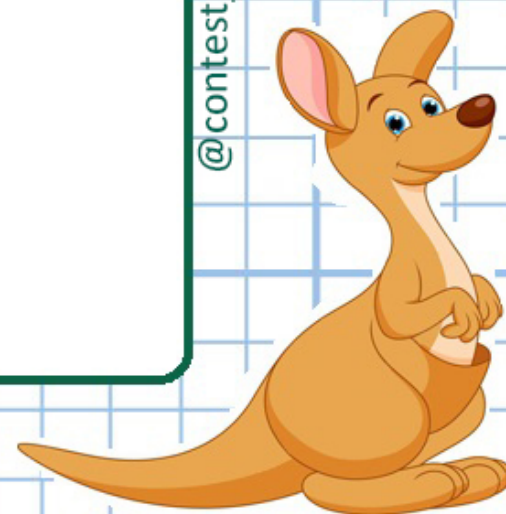
- A) a B) b C) c D) d
E) impossible to determine

Grade 9-11. 4 points

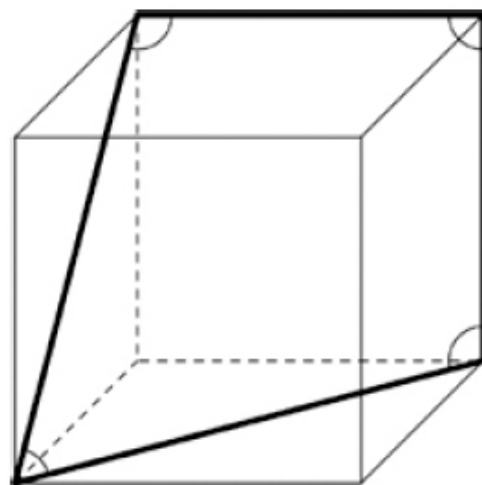
<http://olympia.uz/>

@contest_kenguru_uz

*Join us in preparation for
the Kangaroo contest*



The figure shows a cube with four marked angles. What is the sum of these angles?



- A) 315° B) 330° C) 345° D) 360° E) 375°

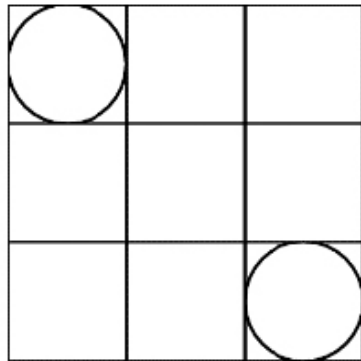
Grade 9-11. 4 points

@contest_kenguru_uz <http://olympia.uz/>

*Join us in preparation for
the Kangaroo contest*



A 3×3 table is divided into 9 unit squares, and two circles are inscribed in two of them (see the figure).



What is the distance between the two circles? (A distance between figures is the shortest distance between any two points on the two figures.)

- A) $2\sqrt{2} - 1$ B) $\sqrt{2} + 1$ C) $2\sqrt{2}$ D) 2 E) 3

Grade 9-11. 4 points

<http://olympia.uz/>

@contest_kenguru_uz

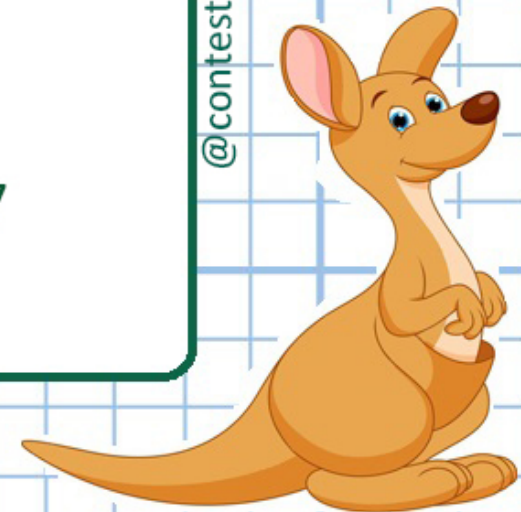
*Join us in preparation for
the Kangaroo contest*



Every inhabitant of the Winger planet has at least two ears. Three inhabitants named Imi, Dimi and Trimi met in a crater. Imi said: "I can see 8 ears." Dimi: "I can see 7 ears." Trimi: "That's strange, I can only see five ears." None of them could see his own ears. How many ears does Trimi have?

- A) 2 B) 4 C) 5 D) 6 E) 7

Grade 9-11. 4 points



@contest_kenguru_uz <http://olympia.uz/>

*Join us in preparation for
the Kangaroo contest*