

WereldWijde WiskundeWedstrijd
W4Kangoeroe
THURSDAY MARCH
21TH 2019



WWW.W4KANGOEROE.NL

Good luck and most of
all have fun.

© Stichting Wiskunde Kangoeroe



calculators are not allowed



you may use 50 minutes



Only a pencil, an eraser and scribbling paper are allowed



results and prizes will arrive at school at the end of May



answers will be posted on the website about March 31th



solutions will be posted on the website about April 22th

wizSMART
7 & 8 primary school

zwijzen

Breng leren tot leven
www.zwijzen.nl

NE SCIENCE
MO MUSEUM

www.e-nemo.nl

TEXAS
INSTRUMENTS

www.education.ti.com



www.smart.be



www.sanderspuzzelboeken.nl

Schoolsupport 

www.schoolsupport.nl

Math Plus

www.mathplus.nl



www.hp-prime.nl

ID Premiums Relatiegeschenken b.v.
Relatiegeschenken & Promotieartikelen
www.idpremiums.nl



www.mathplay.eu



www.ru.nl



www.platformwiskunde.nl

Denksport[®]

www.denksport.nl



www.museumboerhaave.nl



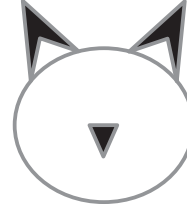
www.knbb.nl

1. The Mayans wrote dots and bars for numbers. A dot was written for 1, and a bar for 5.

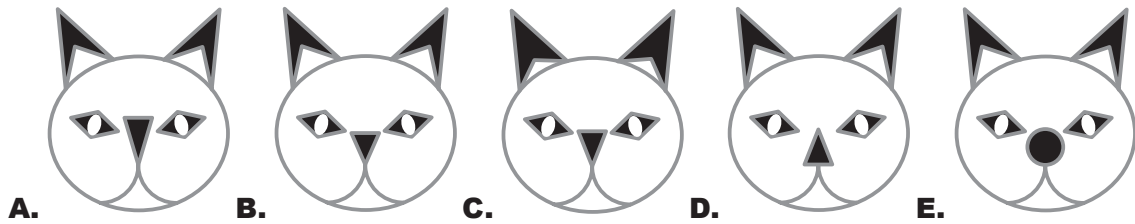
How did they write the number 17?



2. Carrie is going to draw a cat. The ears and nose are done already (see figure). Next, she finishes her drawing.

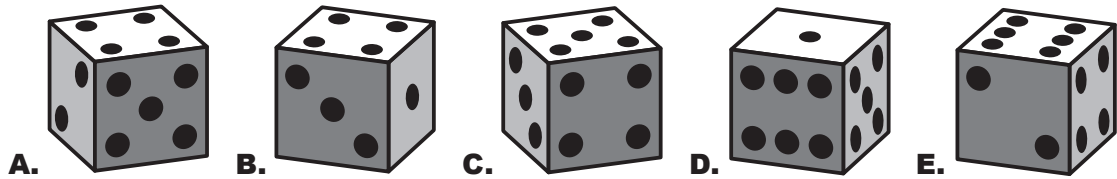


Which of the following drawings could be hers?



3. The numbers 1 through 6 are indicated with dots on an ordinary dice. If you add the dots on opposite faces, the result you get is always 7.

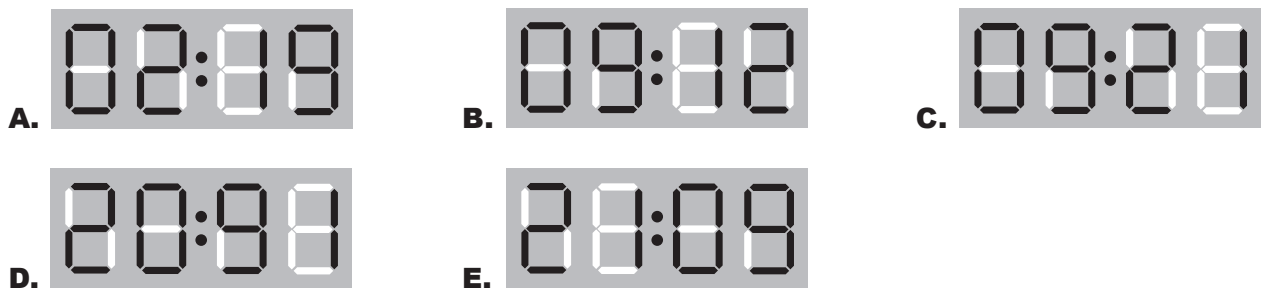
Which of the following dice could be an ordinary one?



4. Elise looks at her alarm clock and sees that the time is 20:19 (see figure).



At what time will she see the same digits again for the first time?



5. A group of kangaroos celebrates that their ages add up to 36 years. In 2 years time, they will celebrate that their ages add up to 60.

How many kangaroos are in this group?

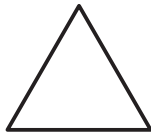
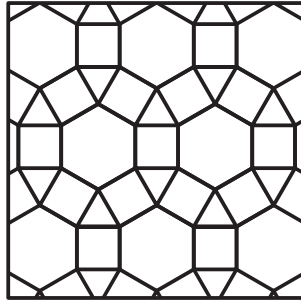
- A. 10 B. 12 C. 15 D. 20 E. 24

6. 16 girls and 10 boys are in a kindergarten classroom. Half the number of children will have to go outdoors.

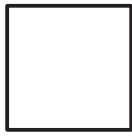
At least how many girls will have to go outdoors?

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

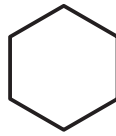
7. Which of the following shapes is not part of the design below?



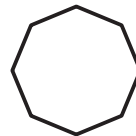
A. Triangle



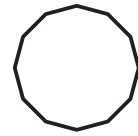
B. Square



C. Hexagon



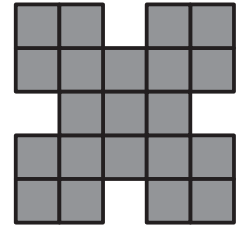
D. Octagon



E. Dodecagon

8.

Laura wants to colour a 2 by 2 square red in the figure alongside.



In how many different ways can she do that?

A. 5

B. 6

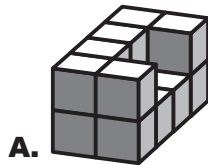
C. 7

D. 8

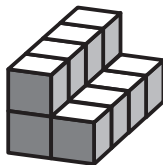
E. 9

9. Michael wants to paint the buildings below.

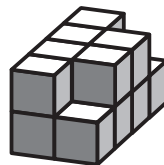
Which building needs the most paint?



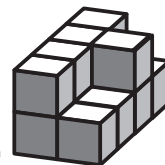
A.



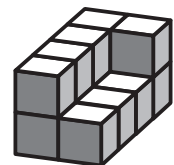
B.



C.



D.



E.

10. Alvan writes a 3-digit number on each of the 3 pieces of paper. Alvan adds the 3 numbers and gets 826 as a result.



What will be the result when she adds the 2 digits that are covered?

A. 7

B. 8

C. 9

D. 10

E. 11

11. Elmas has a dice with on it the 6 smallest odd numbers greater than 0. He throws the dice 3 times and adds the numbers

Which of the following results cannot be obtained?

A. 3

B. 19

C. 20

D. 21

E. 29

12. Rick the frog normally eats 5 spiders a day. On a day when Rick is very hungry, he will eat 10 spiders. The past 9 days, Rick has eaten 60 spiders in total.

On how many days of those 9 days Rick was very hungry?

A. 1

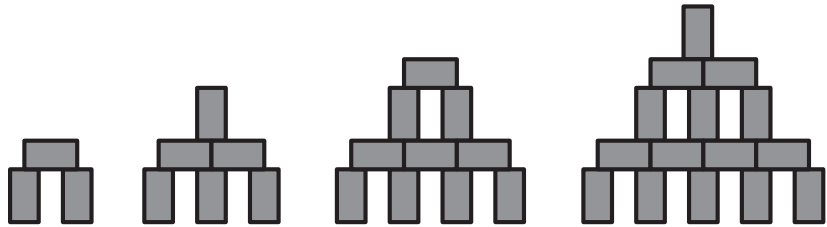
B. 2

C. 3

D. 6

E. 9

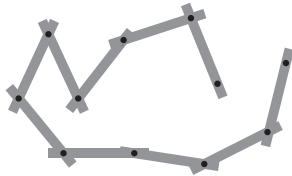
13. Using blocks of 1 cm by 1 cm by 2 cm you can make buildings in the way shown in the figure alongside.



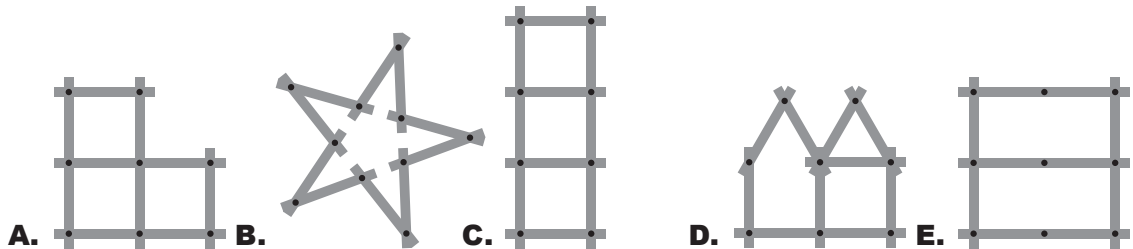
How high will the building be that is made out of 28 blocks?

- A. 9 cm B. 11 cm C. 12 cm D. 14 cm E. 17 cm

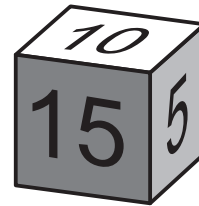
14. Pia makes various figures out of connected sticks (see picture).



Which of the following figures cannot be made with these sticks?



15. On each face of the cube alongside, a positive integer is written.



Karel multiplies the numbers on opposite faces. He always gets the same result. Now he adds all the numbers on the cube.

What is the least possible result *Karel* can get?

- A. 36 B. 37 C. 41 D. 44 E. 60

16. *Alex*, *Bob* and *Cees* go for a walk every day. If *Alex* does not wear a hat, then *Bob* wears a hat. If *Bob* does not wear a hat, then *Cees* wears a hat. Today *Bob* does not wear a hat.

Who does wear a hat today?

- A. both *Alex* and *Cees* B. only *Alex* C. only *Cees*
 D. neither *Alex* nor *Cees* E. impossible to know

17. 5 paintings are shown in a museum for modern art.

For which painting has been used the most black paint?

