

EUROPESE KANGOEROE REKEN- EN WISKUNDEWEDSTRIJD

© Stichting Wiskunde Kangoeroe

www.math.ru.nl/kangoeroe

Good luck
and most of
all have fun.



calculator not
allowed



you may use
50 minutes



scrap paper
is allowed



results and awards
at school at the end
of May



15th April the answers
will be on the website

wizKID
the Netherlands: 5 & 6 primary school
Flanders: 3 & 4 primary school



Zwijsen

www.zwijsen.nl



www.e-nemo.nl

TECHNOPOLIS



www.technopolis.be



getal en ruimte
voor nu en straks
www.getalenuimte.epn.nl



www.education.ti.com



www.smart.be

ID Premiums Relatiegeschenken & Promotieartikelen
www.idpremiums.nl



www.ru.nl



Koninklijk Wiskundig Genootschap
www.wiskgenoot.nl



www.zozitdat.nl

Tazuku
www.tazuku.nl



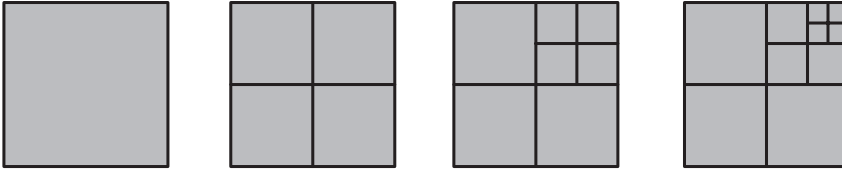
www.cito.nl



www.kijk.nl

1. Alex has three meals a day.
How many meals does he have per week?

A. 7 B. 18 C. 21 D. 28 E. 37

2. 
- 1 tile 4 tiles 7 tiles 10 tiles






How many tiles are there in the next figure in this row?

A. 13 B. 14 C. 15 D. 16 E. 17

3. Father takes his sons Bernie (8 years) and Charles (10 years) to the zoo.
Adults have to pay 4 euros. The entrance fee for kids is 1 euro less.
How many euros does father have to pay for the three of them?

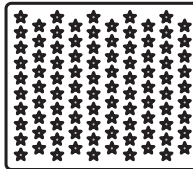
A. 5 B. 6 C. 7 D. 10 E. 12

4. Desiree has got five flowers: a yellow carnation, a yellow tulip, a yellow rose, a red carnation and a red rose. She gives her mother, grandmother, aunt and two sisters a flower each. Auntie and the sisters get flowers of the same colour. Granny doesn't get a rose.
Which flower does mother get?

A. red rose B. yellow rose C. red carnation D. yellow carnation E. yellow tulip

5. How many stars are there in this box?

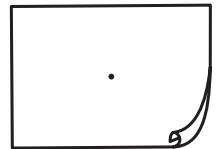


A. 85 B. 90 C. 94 D. 95 E. 100

6. Elsie has got 37 CDs. She gives 10 of her CDs to Fiona. Now they have got the same number of CDs.
How many CDs did Fiona have at first?

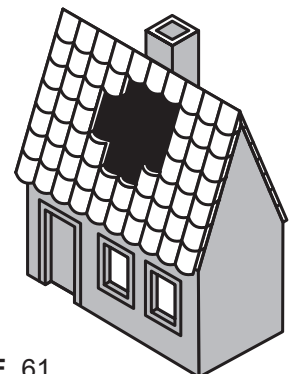
A. 10 B. 17 C. 22 D. 27 E. 32

7. In the middle of a sheet of paper there is a dot.
Remy draws four straight lines from edge to edge. Each line runs through the dot.
That way the paper gets divided into a number of pieces.
How many pieces?



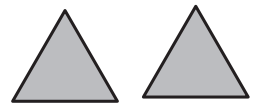
A. 4 B. 5 C. 6 D. 8 E. 12

8. On the roof there are 10 rows, each of 7 tiles.
Due to a heavy storm some tiles are blown off the roof.
How many tiles are there still on the roof?



A. 53 B. 55 C. 57 D. 59 E. 61

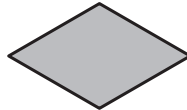
9. Elsie uses the two triangles alongside to make all kind of shapes. The triangles may overlap a bit. Which of the following shapes is impossible for Elsie to make?



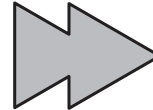
A.



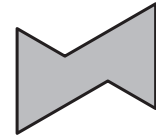
B.



C.



D.



E.

10. Which of the following shapes occurs most?



- A. only B. only C. only D. and
E. All occur equally often

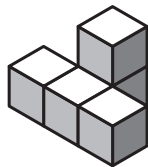
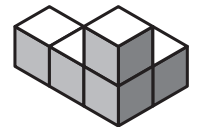
11. Chantal is on the plane. She will land at Schiphol Airport in six and a half hours. It will be four o'clock in the morning then. What time is it now at Schiphol Airport?

- A. 02:30 B. 04:00 C. 10:30 D. 20:00 E. 21:30

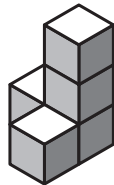
12. Wieteke is taller than Elsie and shorter than Fiona. Gisela is taller than Hilda and shorter than Wieteke. Who is tallest?

- A. Elsie B. Fiona C. Gisela D. Hilda E. Wieteke

13. Alongside there is a construction made out of five little cubes. You are allowed to move exactly one little cube. The construction may be turned around. Which of the following constructions is impossible to make this way?



A.



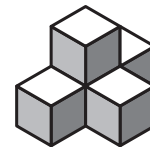
B.



C.

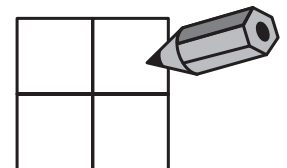


D.



E.

14. One number will be written in every box. The numbers are 2, 3, 4 and a secret number. If you add the numbers in the top row, you will get 9. If you add the numbers in the bottom row, you will get 6. What is the secret number?



- A. 4 B. 5 C. 6 D. 7 E. 8

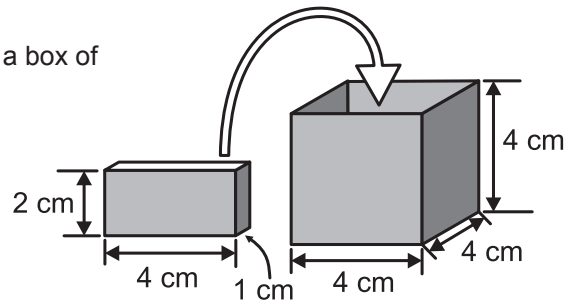
15. A hotel has 5 rooms with 3 beds per room. A few new rooms are added. The new rooms have 2 beds per room. The hotel has 21 beds now. How many new rooms were added?

- A. 1 B. 2 C. 3 D. 5 E. 6

16. A DVD has three episodes of 'Het Klokhuis'. The first episode takes 16 minutes and 25 seconds, the second one 12 minutes and 25 seconds and the third one 10 minutes and 13 seconds. How much time do the three episodes take altogether? (?)

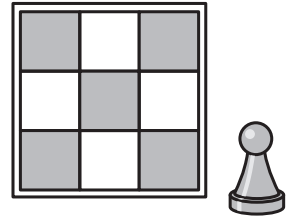
- A. 30 minutes and 10 seconds B. 31 minutes and 13 seconds
C. 31 minutes and 23 seconds D. 38 minutes and 30 seconds
E. 39 minutes and 3 seconds

17. Ismael has blocks of 1 cm by 2 cm by 4 cm. He wants to put as many of them as possible in a box of 4 cm by 4 cm by 4 cm. The lid still has to fit on the box. How many blocks can Ismael put in the box?



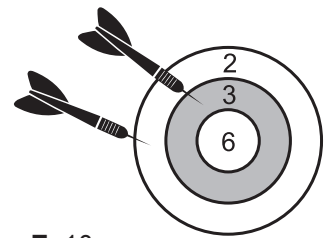
A. 6 B. 7 C. 8 D. 9 E. 10

18. You want to move a pawn across this board. The pawn has to be at every square exactly once. You may only move the pawn horizontally (\leftrightarrow) or vertically (\updownarrow). Starting at which squares will you be able to manage?



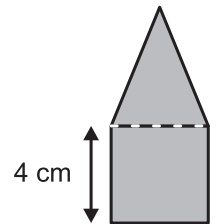
A. Only at the central square B. At a corner square
C. At a white square D. At a gray square
E. At every square

19. Hafida throws two darts at the special dartboard shown. She has scored 5 points now. She throws again. Both darts land on the board. How many different scores can Hafida get?



A. 4 B. 6 C. 8 D. 9 E. 10

20. A square and a triangle together form a pentagon. The square and the triangle have the same perimeter. What is the perimeter of the pentagon in cm?



A. 12 B. 24 C. 28 D. 30 E. 32

21. Rick has as many brothers as he has sisters. His sister Jeanette has twice as many brothers as sisters. How many children do the father and mother of Rick and Jeanette have?

A. 3 B. 4 C. 5 D. 6 E. 7

22. For some two-digit numbers the last digit is greater than the first. For 27 for instance, 7 is greater than 2. How many of these numbers are there?

A. 9 B. 18 C. 26 D. 30 E. 36

23. Gerard puts a number of matches on the table, making the ends meet. This way he forms a triangle. With how many matches will Gerard fail to do this?

A. 3 B. 4 C. 5 D. 6 E. 7

24. A box contains seven cards. The cards are numbered 1 through 7. Gerard takes three cards at random. Then Hafida takes two cards. There are two cards left in the box now. Gerard can tell from the numbers on his cards that the sum of the two numbers on Hafida's cards has to be even. What is the sum of the numbers on Gerard's cards?

A. 6 B. 9 C. 10 D. 12 E. 15

Tick the answer you think will be answered *best* and tick the one you think will be answered *worst*.