

2007



wizKID

[www.math.ru.nl/kangoeroe](http://www.math.ru.nl/kangoeroe)

EUROPESE KANGOEROE  
REKEN- EN WISKUNDEWEDSTRIJD

**Good luck  
and most of  
all have fun!**



calculator not allowed



you may use 50 minutes



of course scrap paper is allowed



results and awards at school at the end of April



20st March the answers will be on the website

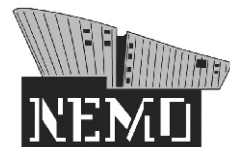
wizKID  
the Netherlands: 5 & 6 primary school  
Flanders: 3 & 4 primary school

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1.  $4 - 4 + 4 - 4 + 4 - 4 + 4 - 4 = ?$

- A. 0      B. 4      C. 8      D. 32      E. 44

2. Sophie walks from left to right and puts the numbers she comes across in her basket.



Which numbers could end up in her basket?

- A. 1, 2 and 4    B. 1, 2 and 5    C. 1, 5 and 6    D. 2, 3 and 4    E. 2, 3 and 5

3. Sophie has got 5 euros. She buys 5 notebooks. A notebook costs 80 eurocents. Then she also buys some pens. A pen costs 30 eurocents. How many pens can Sophie buy?



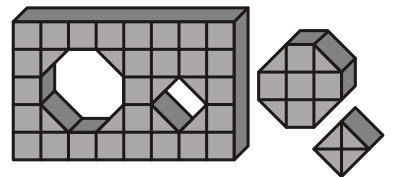
- A. 1      B. 2      C. 3      D. 4      E. 5

4. You have to put the digits 1, 2 and 3 in the squares shown. Every row from left to right should contain a 1, a 2 and a 3. Every row from top to bottom should also contain a 1, a 2 and a 3. Which digit can you put in the square with the question mark?

1	?	
2	1	

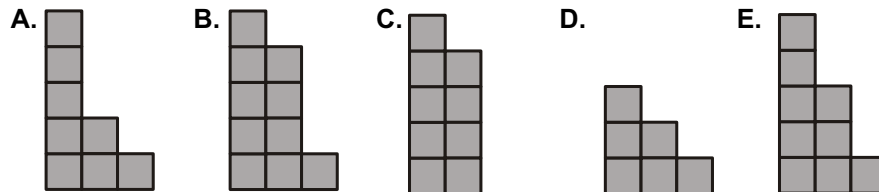
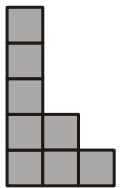
- A. only 1      B. 1, 2 and 3    C. only 2      D. 2 and 3      E. only 3

5. Two pieces are cut from a plank. The smallest piece weighs 2 kg. What is the weight of the largest piece?

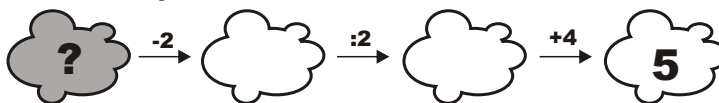


- A. 4 kg      B. 5 kg      C. 6 kg      D. 7 kg      E. 8 kg

6. A rectangle has to be formed from two pieces. One of the pieces is shown alongside. Which piece will fit exactly?



7. The following sum must be made correct.



What number should you put in the little grey cloud?

- A. 1      B. 3      C. 4      D. 7      E. 9

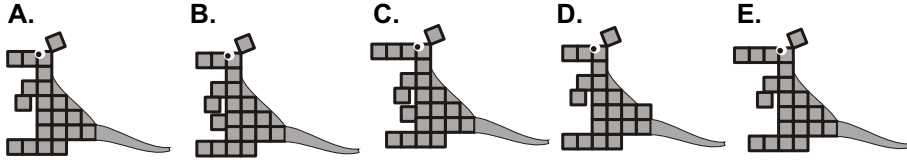
8. You have to find a number that is greater than 2007. When you add the digits of that number, you should get the same answer as for 2007. What is the smallest number you can find?

- A. 1701      B. 2008      C. 2016      D. 2070      E. 7002

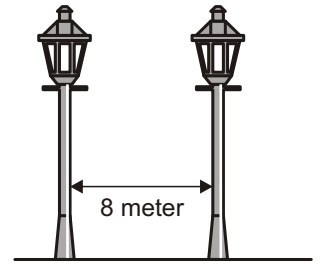
3 points



9. Which kangaroo has the largest number of little squares?



10. There are 9 streetlights along the road. The lights are always 8 metres apart. Daan has walked from the first to the last light. How many metres did Daan walk?



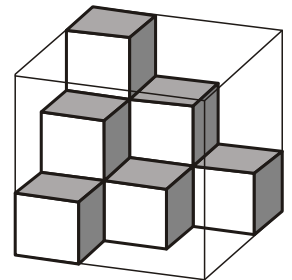
- A. 56      B. 64      C. 71      D. 72      E. 80

11. Daan makes a number out of the four cards. How many different numbers can Daan make?



- A. 2      B. 3      C. 4      D. 5      E. 6

12. Daan has put a number of blocks in the box shown. How many more blocks will fit in?



- A. 9      B. 14      C. 17      D. 21      E. 27

13. On Sophie's plate are 50 strands of spaghetti. Every strand is 15 cm long. She makes one long string out of all strands. How long will it be?

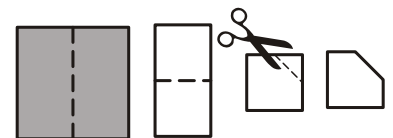


- A. less than 6 m      B. between 6 and 7 m      C. between 7 and 8 m  
D. between 60 and 70 m      E. between 70 and 80 m

14. Daan has written down a two-digit number. When he adds 19 to it, the answer is 72. How many tens does the number that Daan wrote down contain?

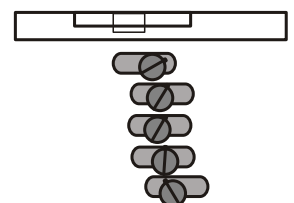
- A. 2      B. 5      C. 6      D. 7      E. 9

15. A square piece of paper is folded over twice. Then a small corner is cut off. After that the paper is unfolded again. Which of the figures shown *cannot* be obtained this way?



- A.      B.      C.      D.      E. you can get them all

16. Sophie, Lisa, Anna, Emma and Fleur are waiting in a queue. Sophie's turn is later than Anna's. Lisa comes before Sophie and immediately after Emma. Emma comes before Anna, but is not right at the front. At which position is Fleur standing?



- A. 1st      B. 2nd      C. 3rd      D. 4th      E. 5th

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17. At the corners of a 15 by 9 cm plank, small squares are sawn off. These squares measure 2 by 2 cm. How many cm is the length of the edge of the remaining plank?



A. 16      B. 24      C. 32      D. 40      E. 48

18. The odometer of a car reads 3993. Reading this number backwards, you get the same number. How many kilometers does the car have to go before such a reversible number appears again?

A. 10      B. 11      C. 101      D. 111      E. 1001

19. The chairs at a party are numbered: 1, 2, 3, and so on. The chairs are arranged neatly in a circle. At this party Daan is sitting on chair number 11, directly opposite Sophie. Sophie is on chair number 4. How many chairs are there in the circle?

A. 13      B. 14      C. 16      D. 17      E. 22

20. Daan was born on January 1, 2002. He is older than Sem by one year and one day. On which day was Sem born?

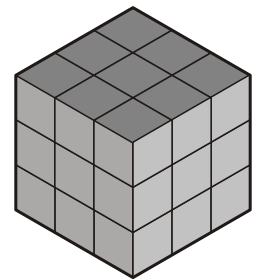
A. 31 December 2000      B. Januari 2001      C. 31 December 2002  
D. 2 Januari 2003      E. 31 December 2003

21. Daan's digital clock always shows four digits. The time now is 20:07 o'clock. For how long does Daan have to wait before he will see the same four digits again?



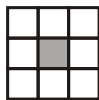
A. 4 hours and 20 minutes      B. 6 hours      C. 10 hours and 55 minutes  
D. 11 hours and 13 minutes      E. 24 hours

22. A 3 by 3 by 3 block is painted grey. It is then cut in small 1 by 1 by 1 blocks. How many of the small blocks have exactly two grey faces?

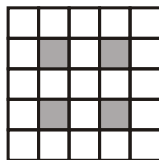


A. 6      B. 8      C. 10      D. 12      E. 24

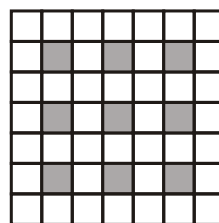
23. We count the number of white squares in these figures.



8 white squares



21 white squares



40 white squares

How many white squares does the next figure have?

A. 50      B. 60      C. 65      D. 70      E. 75

24. Sophie writes down the numbers from 1 until 100 (inclusive): next to each other and without skipping a square. Part of the sequence of numbers is shown.



How many squares does Sophie need in all?

A. 100      B. 150      C. 190      D. 192      E. 200

5 points