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www.museumboerhaave.nl



wereldwijde wiskunde edstrijd W4Kangoeroe

www.w4kangoeroe

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7 & 8 primary school and 1 & 2 vmbo, vmbo 3 & 4 basisberoepsgerichte leerweg



calculators are not allowed



Only a pencel, an eraser and scribbling paper are allowed







wizSMART

answers will be posted on the website March 27th

A

solutions will be posted on the website April 20th

results and prizes will

you may use

50 minutes

arrive at school in May



1. *Jesse* has put the Dutch word KANGOEROE in front of him.



 $|\mathbf{Z}||\mathbf{G}|$

H R C

E

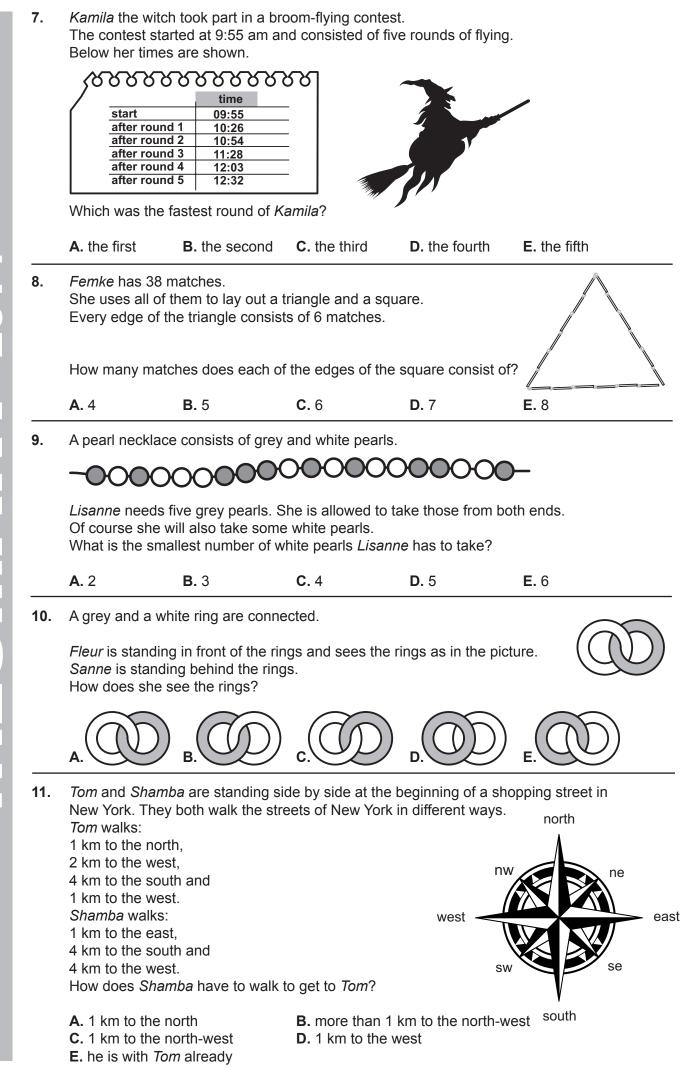
Some letters have not been put down correctly. In the example below you see that *Jesse* will have to rotate the letter K twice a quarter turn and the letter A only once.

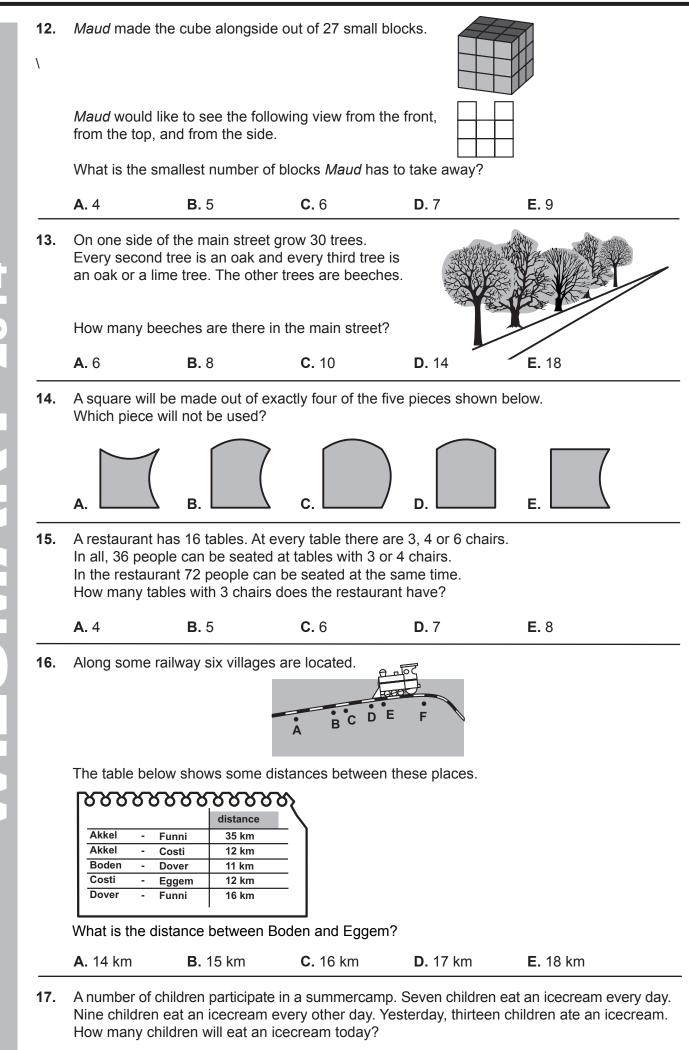




How many times does *Jesse* have to rotate the letters of the word KANGOEROE a quarter turn so that they are all placed correctly?

	A. 4	B. 5	C. 6	D. 7	E . 8				
2.	<i>llse</i> used litt	le cards to cover t	nree digits in the f	following sum.	1 2 1 3 1 4 +				
	What result will she get when she adds those three digits? 309								
	A. 0	B. 1	C. 2	D. 3	E. 10				
3.	A cake weighs 900 gram. <i>Hamid</i> cuts the cake into four pieces. The largest piece weighs as much as do the other three pieces together.								
	How much c	How much does the largest piece weigh?							
	A. 250 g	B. 300 g	C. 400 g	D. 450 g	E . 600 g				
4.	How big is the difference between the smallest five-digit number and the largest four-digit number?								
	A. 1	B. 10	C. 1111	D. 9000	E . 9999				
5.	The area of	wall with nine tiles the white region o as the area of the	f the tiles has to b						
	Which tile takes the position of the question mark?								
	A.	в.	c.	D.	E.				
6.	A square of perimeter 48 cm is cut into two pieces, which are put next to each other.								
				······································					
	What is the perimeter of the rectangle we obtain this way?								
	A. 24 cm	B. 30 cm	C. 48 cm	D. 60 cm	E. 72 cm				





A. 7

B. 8

C. 9

D. 10

E. 11

18.	Malika has a CD with five songs on it: song A lasts 3 minutes, song B lasts 2 minutes and 30 seconds, song C lasts 2 minutes, song D lasts 1 minutes and 30 seconds and song E lasts 4 minutes. These five songs are repeated in the order A, B, C, D, E, without breaks. When Anne left her room, song C was playing. Which song was playing when Anne returned exactly 1 hour later?								
	A . A	B. B	C. C	D. D	E. E				
 19. Chalid puts the digits 1 to 9 in the table shown. He has already made a start. Chalid would like to have the digits bordering the box with digit 5 to sum up to 9 Chalid then adds the digits bordering the box with number 6. What is the result? 									
	A. 14	B. 15	C. 17	D. 24	E. 29				
20.	20. Three digits are written on a blackboard. <i>Fleur</i> adds them and gets the number 15 as a result. She then erases one digit and writes down the digit 3 instead. Now she multiplies the three digits and gets the number 36 as a result. Which digit can <i>Fleur</i> have erased?								
	A. 6 as well D. only 7	as 7	B. 7 as well a E. only 8	as 8	C. only 6				
	Which of the	e figures shown be	elow is not a view of c .	of the cube?					
22.	speed of 5 k The messen	m/h. Every hour t ger runs with a s	walk from the cas he king sends a m peed of 10 km/h. each time betweer	essenger back to	the castle.	astle?			
	A. 30 min	B. 60 min	C. 75 min	D. 90 min	E. 120 min				
23.	Grandmother <i>Emma</i> has six grandchildren. The ages of these grandchildren are all different. When you add the ages of all grandchildren, the result will be 120. <i>Evelien</i> is the eldest. What is the minimal possible age of <i>Evelien</i> ?								
	A. 19	B. 20	C. 21	D. 22	E. 23	Ma			
24.	In Fabuland every sunny day is always preceded by at least two days of rain. And the fifth day after a rainy day is also always a rainy day. Today the sun is shining. What is the biggest number of consecutive days after today that we can predict the weather with certainty?								
	A. 1 day	B. 2 days	C . 3 days	D. 4 days	E. 5 days				