## 4 KANGOEROE ereld ijde iskunde edstrijd

## www.w4kangoeroe.n Good luck and most of

all have fun.

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204

calculator not allowed



scrap paper is allowed

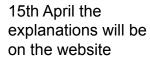


20th March the answers will be on the website









results and awards

at school mid-May

you may use 50 minutes Zwijsen

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

1.	Both side-boa	pard is 6 metre wide ords have the same etre is the width of t	width.		الجمع 3 m			
	<b>A.</b> 1	<b>B.</b> 1,25	<b>C.</b> 1,5	<b>D.</b> 1,75	<b>E.</b> 3			
2.	He paints diffe	EVE KANGOEROE erent letters in differ ferent colours does	rent colours, and th	ne same letters in the	same colour.			
	<b>A.</b> 7	<b>B.</b> 8	<b>C.</b> 9	<b>D.</b> 10	<b>E.</b> 13			
3. <b>2602</b> 4.	Julia makes a square out of four matches. The picture shows that four coins fit in exactly. Now she would like to make a square that will fit exactly 16 coins in the same way. How many matches will she need then?							
	<b>A.</b> 8	<b>B.</b> 10	<b>C.</b> 12	<b>D.</b> 15	<b>E.</b> 16			
<b>N</b> 4.	The rows of seats in an airplane are numbered 1 through 25. There is no row with number 13. Row 15 has 4 passenger seats, all other rows have 6 seats. How many passengers can be seated in the airplane?							
	<b>A.</b> 120	<b>B.</b> 138	<b>C.</b> 142	<b>D.</b> 144	<b>E.</b> 150			
5.	Each time the the stones fro Hip starts at s Figure 2 show	stone is exactly in m START to FINISI ome other place. /s Hip's START.	the middle of the j H.	es, first over 1, then o ump. Figure 1 shows	A 3 A 3 B C start D E			
	<b>A.</b> A	<b>B.</b> B	<b>C.</b> C	<b>D.</b> D	<b>E.</b> E			
6.	1 is red, 2 is t	-	s red, 5 is blue, 6 is	or green. 9 green, 7 is red again u add a red number a				
	A. blue	B. green	C. red	<b>D.</b> red or blue	E. you cannot tell			
7.	Four cog wheels are linked together as shown in the picture. The first cog wheel has 30 teeth, the second 15, the third 60 and the fourth cog wheel 10. How many times does the the fourth cog wheel turn around when the first turns around once?							
	<b>A.</b> 3	<b>B.</b> 4	<b>C.</b> 6	<b>D.</b> 8	<b>E.</b> 9			
8.	All sides of a He makes a c Only the letter Nowhere do t	e with letters on the dice show the same ube of the dice. 's A, B, C and D are he same letters tou s on the dice you ca	e letter. e used. ch each other.	cture?	B D D A B B B D			
	<b>A.</b> A	<b>B.</b> B	<b>C.</b> C	<b>D.</b> D	E. impossible to tell			

9. When it is 17.00 hours in Amsterdam, it is 8.00 hours on the same day in San Francisco. Emma went to sleep on Tuesday at 21.00 hours in San Francisco. What was the time in Amsterdam at that moment? **A.** Tuesday 6.00 hours **B.** Tuesday 12.00 hours C. Tuesday 18.00 hours **D.** Wednesday 1.00 hours E. Wednesday 6.00 hours **10.** Which three puzzle pieces will finish the puzzle? **C.** 1, 4, 5 **A.** 1, 2, 5 **B.** 1, 3, 6 **D.** 2, 3, 5 E. 2, 3, 6 11. Wonderland has five cities. Every pair of cities is connected by a single road. Four roads have been drawn on the map of Wonderland already. How many more roads will have to be drawn to finish the map? **A.** 3 **B.** 4 **C.** 5 **D.** 6 **E.** 7 12. A balloon remains floating when a basket with 8 kg is attached underneath. Two such balloons remain floating when the same basket with 18 kg is attached. How many kg is the weight of the basket? **B.**2 **C.** 3 **E.** 5 **A.** 1 **D.** 4 13. This figure consists of similar squares. The perimeter of the the figure is 42 cm. How many cm<sup>2</sup> is the area of the figure? **A.** 8 **B.** 9 **C.** 24 **D.** 72 **E.** 128 14. Sophia and Danny were given one basket with apples and pears by their grandmother. The basket contained 25 pieces of fruit. On their way home Sophia ate one apple and three pears. Danny ate three apples and two pears. When they got home, the basket contained just as many apples as pears. How many pears did grandma give the two children? **A.** 12 **B.** 13 **C.** 16 **D.** 20 **E.** 21 15. Write down the numbers 1 through 7 in the circles. When you add three numbers on a line, the result should be the same for all lines. Which number should go at the top of the triangle? **A.** 1 **B.** 3 **C.** 4 **D.** 5 **E.** 6 16. The upper coin is rotated around the lower coin to the open circle next to it. Which way do the coins lie together now?

	The two figures are made out of the same five pieces. The grey piece is a 5x10 cm rectangle, the other four are quarter-circles. The perimeters of the two figures are different. By how many cm do the perimeters differ?							
	<b>A.</b> 2,5	<b>B.</b> 5	<b>C.</b> 10	<b>D.</b> 20	<b>E.</b> 30			
18.	The roof is 8 r Every time the How often will	meters high. e ball hits the groun	he roof of a house. d it bounces back to ass by from a windo at 1.80 m?		er side is 1,8 m			
	<b>A.</b> 2	<b>B.</b> 3	<b>C.</b> 4	<b>D.</b> 5	<b>E.</b> 6			
19.	Each of these Most children		party. The children of the children are 6 velve children?		and 10 years.			
	<b>A.</b> 6	<b>B.</b> 6,5	<b>C.</b> 7	<b>D.</b> 7,5	<b>E.</b> 8			
20.	The numbers 1 through 12 form a circle. Two numbers that are next to each other always differ by 1 or 2. Which of the following numbers are next to each other?							
	<b>A.</b> 3 en 4	<b>B.</b> 5 en 6	<b>C.</b> 6 en 7	<b>D.</b> 8 en 10	<b>E.</b> 9 en 10			
21.	Ismael cuts the rectangle shown in pieces, along the lines. All pieces are squares. What is the least number of squares Ismael could cut up the rectangle into?							
	<b>A.</b> 4	<b>B.</b> 5	<b>C.</b> 7	<b>D.</b> 9	<b>E.</b> 42			
 22.	Lisa makes ma	arinade from vinega						
22.	Lisa makes ma She uses vine What is true? A. The marina B. The marina C. The marina D. The marina	arinade from vinega gar and wine in a ra ade contains more ade contains more ade contains more ade contains more	ar, wine and water. atio of 1:2 and wine	and water in a ration nd water together. I vinegar together.				
22.	Lisa makes ma She uses vine What is true? A. The marina B. The marina C. The marina D. The marina E. The marina A puzzle book and below ever	arinade from vinega gar and wine in a ra ade contains more ade contains more ade contains more ade contains more ade contains more ade contains more contains the follow ery column the num has a solution?	ar, wine and water. atio of 1:2 and wine vinegar than wine. water than vinegar. vinegar than wine and water than wine and wine than vinegar and ving puzzles. Some ber of boxes is give	and water in a rational mater together. I vinegar together. Ind water together.	o of 3:1. oloured red. Next to every row loured red in that row or colum			
	Lisa makes ma She uses vine What is true? A. The marina B. The marina C. The marina D. The marina E. The marina A puzzle book and below eve Which puzzle	arinade from vinega gar and wine in a ra- ade contains more ade contains more ade contains more ade contains more ade contains more ade contains more contains the follow ery column the num has a solution?	ar, wine and water. atio of 1:2 and wine vinegar than wine. water than vinegar. vinegar than wine and water than vinegar and wine than vinegar and ving puzzles. Some ber of boxes is give	and water in a rational mater together. I vinegar together. Ind water together. boxes have to be compared by the state of	o of 3:1. oloured red. Next to every row loured red in that row or colum 2 0 1 3 2 3 1			
	Lisa makes ma She uses vine What is true? A. The marina B. The marina C. The marina D. The marina E. The marina E. The marina A puzzle book and below ever Which puzzle	arinade from vinega agar and wine in a ra- ade contains more vine ade conta	ar, wine and water. atio of 1:2 and wine vinegar than wine. water than vinegar. vinegar than wine and water than vinegar and vine than vinegar and ving puzzles. Some ber of boxes is give 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	and water in a rational matrix and water together. Ind water toget	o of 3:1. oloured red. Next to every rov loured red in that row or colur 2 0 1 3 2 3			