



FLEXIQ PLAY - ADAPT - GROW





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NUMWORKS



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WERELDWIJDE WISKUNDE WEDSTRIJD

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GOOD LUCK AND MOST OF ALL HAVE FUN !



calculators are not allowed

only a pencil, an

paper are allowed

eraser and scribbling

answers will be posted

on the website about

March 29th



you may use 75 minutes



AB

result



solutions will be posted on the website about April 20th

wizBRAIN havo 1, 2 & 3 vwo 1 & 2 vmbo 3 & 4 m.u.v. basisberoepsgerichte leerweg.



1.	A shape is mad	le of pentagonal tile:	s of equal size.					
	Which of the fo so that you get	llowing tiles can be two closed curves?	placed in the space of t	he shape	C.			
	A.	в.	c.	D.	E.			
2.	Which of the fo on the right with	llowing strings cann nout cutting?	ot be transformed into	the cord shown	\bigcirc			
	A. (8)	в.	c.	D.	E. 8			
3.	The left diagrar Two right-angle By what percer	n on the right is a rh d triangles are adde ntage has the area ir	ombus. ed to this rhombus (see ncreased?	right diagram).				
	A. 20%	B. 25%	C. 30%	D. 40%	E. 50%			
4.	What is the value	ue of $\frac{20 \times 24}{2 \times 0 + 2 \times 4}$	-?					
	A. 12	B. 30	C. 48	D. 60	E. 120			
	The multiplications of the numbers in each row and in each column are shown next to and below the grid.							
	A. 10	B. 12	C. 13	D. 14	E. 15			
6.	<i>Ria</i> has three c She wants to pl	oins with the numbe lace the three coins	ers 1, 5 and 11 on them side by side to make a	(see picture). four-digit number.	1 5 1	Ì		
	How many different four-digit numbers can <i>Ria</i> make?							
	A. 3	B. 4	C. 6	D. 8	E. 9			
7 .	In a fruit bowl th	nere are five kinds o	f fruit: apples, grapes, o	cherries, strawberrie	s and bananas.			
	<i>Alwin</i> likes appl <i>Cam</i> likes grap <i>Eva</i> likes apple	les. es, cherries, strawb s and cherries.	es, cherries, strawberries es, grapes and cherries.	and bananas.				
	The fruit is shared. Everyone gets a different kind of fruit and everyone gets a kind of fruit that they like.							
	Who gets the cherries?							
	A. Alwin	B. Ben	C. Cam	D. Don	E. Eva			
8.	In an elevator, due to weight restrictions, 12 adults or 20 children can be carried.							
	What is the largest number of children that can be carried in the elevator together with nine adults?							
	A. 3	B. 4	C. 5	D. 6	E. 8			
9.	Julio cuts off the	e four corners of the	e regular shape below.	·				
				D 12	E 15			
	A. 0	D . 7	U .		L 10			

10.	Two identical re The new rectan	ectangles with an area Igle has an area of th	a of 18, are slied over ree identical squares	each other.			
			to a silo Q				
	A 18			D 27			
11.	The length of a The length of a	set of four well-parke	ed supermarket trolley d supermarket trolley	/s is 108 cm.			
	What is the leng	gth of a single superr	narket trolley?		<u> </u>		
	A. 60 cm	B. 68 cm	C. 78 cm	D. 88 cm	E. 90 cm		
12.	<i>Carina</i> baked a She ate one pie What is the size	pie and cut it into ter ece and then arrange e of the angle betwee	n equal pieces. d the remaining piece n two pieces of pie?	es evenly (see figure).	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		
	A. 1°	B. 2°	C. 3°	D. 4°	E. 5°		
	The addition of You may not tu Which of the fo A. 111	the numbers in each rn the pieces. Ilowing pieces does k 3 B. 21	row and in each colu <i>Verner</i> need to comp 0 c. 1 2	2 1 3 1 1 1 mn in this square should be the square? 1 D. 2 2	2 3 1 2 Id always give the same result.		
14.	Paula the penguin goes fishing every day. She always brings twelve fish for her two chicks to eat. Every day she gives seven fish to the chick she sees first. The other chick gets five fish. In the past few days, one of the chicks has eaten 44 fish.						
	A. 34	B. 40	C. 46	D. 52	E. 58		
15.	<i>Johan</i> has a lar He made the st of the cube (in o Now, he wants cube on each fa	ge number of identic ructure (diagram 2) b diagram 1). to make an even mon ace of his structure (c	al cubes. y sticking another cu re extended structure liagram 2).	be on each face by sticking another	diagram 1 diagram 2		
	How many extra cubes will he need to complete his extended structure?						
	A. 10	B. 12	C. 14	D. 16	E. 18		
16.	A kangaroo jum On the way up, On the way dow In total, the kan	nps up a mountain an it covers 1 meter per vn, it covers 3 meters garoo makes 2024 ju	d then jumps back do jump. per jump. mps.	wn again along the sa	me route.		
	What is the total distance the kangaroo jumps?						
	A. 506 m	B. 1012 m	C. 2024 m	D. 3036 m	E. 4048 m		

17.	<i>Gerard</i> cuts a The perimeter	large rectangle into s of three of these s	four smaller rectangle smaller rectangles are	s. 16, 18 and 24, as shov	vn in the diagram.	16		
					18	24		
	What is the pe	erimeter of the fourth	n small rectangle?					
	A. 8	B. 10	G. 12	D. 14	E. 16			
18.	Fresh mushro	oms consist of 80% oms consist of 20%	water. water.					
	By what perce	entage does the wei	ght of the mushroom d	ecrease during drying	?			
	A. 60%	B. 70%	C. 75%	D. 80%	E. 85%			
19.	Jerry the tiler is planning to make a large, square mosaic floor with a repeating pattern. For this he uses hexagonal and triangular tiles, arranged as shown in the diagram. He thinks he will need 3000 hexagonal tiles to make the whole floor.							
	Approximately	, how many triangu	lar tiles will <i>Jerry</i> need	?				
	A. 1000	B. 1500	C. 3000	D. 6000	E. 9000			
20.	Nine cards numbered from 1 to 9 are placed face up on the table. <i>Aleksa</i> , <i>Bart</i> , <i>Clara</i> and <i>Deindra</i> take two cards each. <i>Aleksa</i> said, "My numbers add up to 6". <i>Bart</i> said, "The difference between my numbers is 5". <i>Clara</i> said, "The multiplication of my numbers is 18". <i>Deindra</i> said, "One of my numbers is twice the other one". All four statements are true.							
	What number	was left on the table	e?					
	A. 1	B. 3	C. 6	D. 8	E. 9			
21.	The digits 0 to 9 can be represented by horizontal and vertical black segments (see diagram). For example, the 0 consists of four vertical black segments and two horizontal black segments. Greg chooses three different digits. In total, his digits have five horizontal and ten vertical black segments							
	What is the addition of his three digits?							
	A. 9	B. 10	C. 14	D. 18	E. 19			
22.	Amina wants to shade two more squares in the diagram shown on the right. The resulting pattern has a single axis of symmetry. This axis of symmetry can be horizontal, vertical or diagonal.							
	In how many	different ways can s	he complete her patter	n?		+-1		
	A. 2	B. 3	C. 4	D. 5	E. 6			
23.	Captain <i>R.R. Flint</i> asked four of his pirates to write on a piece of paper how many gold, silver and bronze coins were in the treasure chest. Their responses are shown in the picture.							
	Unfortunately, part of the paper was damaged. Only one of the four pirates told the truth. The other three pirates lied in all their answers. The total number of coins is 30.							
	Unfortunately, Only one of th The other thre The total num	part of the paper w e four pirates told th e pirates lied in all t ber of coins is 30.	as damaged. ie truth. heir answers.	Pit 10 Jim 9				
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The middle semi-circle is touching the other two semi-circles. (touches means: lies against it) The two outer semi-circles each touch a short side of the rectangle. The shortest distances from the long side of the rectangle. The shortest distances from the long side of the rectangle to the other two semi-circles are 5 cm and 7 cm, What is the perimeter, in cm, of the rectangle? A. 82 B. 92 C. 96 D. 108 E. 120 25. A group of 50 students sit in a circle. They throw a ball around. Each student who gets the ball, throws it to the sixth student sitting counterclockwise from where they are s who catches it. <i>Freda</i> catches the ball 100 times In that time, how many students never get to catch the ball? A. 0 B. 8 C. 10 D. 25 E. 40 26. <i>Mascon</i> wants to complete the diagram alongside so that each box will contain the multiplication of the numbers in the two boxes below it. In each box there will be a positive integer. In the top box is the number 720. How many different values can the integer <i>n</i> take? A. 1 B. 4 C. 5 D. 6 E. 8 27. Farmer <i>Fien</i> sells duck and chicken eggs. She has baskets holding 4, 6, 17, 13, 22 and 29 eggs. Her first customer buys all the eggs in one basket. <i>Fien</i> notices that the number of chicken eggs are now has left is twice the number of duck eggs. How many eggs did the customer by? A. 4 B. 12 C. 13 D. 22 E. 29 28. A regular pentagon and a regular hexagon are attached to a square as shown below. What is the size of the marked angle? A. 24 ^a B. 42 ^a C. 60 ^o D. 69 ^o E. 74 ^o 29. A 4 dr dr ho point A dn ben immediately returns to A. Bob drives from point A to point A and the immediately returns to A. Bob drives from point A to point A and then immediately returns to A. Bob drives from point A to point A and then immediately returns to A. Bob drives from point A to point A and then immediately returns to A. Bob drives from point A to point A and then immediately returns to A. Bob drives from point A to point A and then immediately returns to A. Bob drives from	24.	The diagram o	on the right shows thre	ee semi-circles inside	e a rectangle.				
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What is the area in cm ² of the entire pentagon?		The dark shaded region has an area of 13 cm ² and the light shaded region has an area of 10 cm ² . What is the area in cm ² of the entire pertagon?							
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