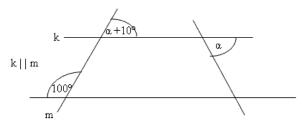
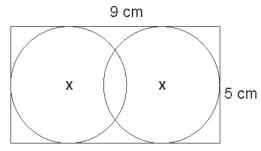
KONKURS

I LOVE MATH

1. What is the size of the angle marked α ?



- A. 60°
- B. 70°
- C. 80°
- D. 90°
- 2. The diagram shows two circles enclosed in a rectangle measuring 9 cm x 5 cm.



What is the distance between the centres of the circles?

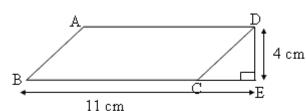
- A. 4,5 cm
- B. 4 cm
- C. 2,5 cm
- D. 2 cm

- **3.** If $a * b = \sqrt{ab + 4}$ then the value of (2 * 6) * 8 is
 - A. 6
- B. 8
- C. 10
- D. 12

what exponent goes in the box?

- A. 3
- B. 4
- C. 6
- D. 9
- 5. What is the biggest natural number which satisfies the inequality $\frac{3x-1}{2}-1 < \frac{x+6}{3}$
 - A. 3
- B. 2

- 6. In the diagram the area of the parallelogram ABCD is 32cm². What is the area of the triagle DCE?



- 6 cm²

 $8 \, \mathrm{cm}^2$

- 12 cm^2
- $0.6 \; \mathrm{dm}^2$

A.

D.

- 7. If $\frac{F 32}{9} = \frac{C}{5}$ and F = 100 then C is nearly
 - A. 37
- B. 37,7
- C. 37,8
- D. 39

8. A 1	function	is de	scribe	ed as f	ollo	ws:	For	eve	ry two-digit natural number you assign the sum of its digits.	
	a) Ho		•							
		What is the value of the function for $x = 78$?								
c) What is the minimum and maximum v										
9.	0) 511									
	A function is described by formula:									
	f(x) = a	ax + b	.							
	Given	Given that:								
	f(1) + j	f(1) + f(-1) = 6 and $f(2) - f(-2) = -4$								
	a) Fin b) Ca									
10. Co	omplete	the p	uzzle	as sho	own	in t	he ex	kamj	ple and find the hidden word.	
					0.	0	D	D		
			1.							
	2		T.					_	٦	
	2.									
			·	,	3.					
			4.							
	5.									
6.										
		7.								
	8.						<u></u>	<u></u>		
	0.									
					9.					
						10.				
0.	Numbers 1, 3, 5, 7, etc. are called numbers.									
1.										
2.										
3.										
4.										
5.	A solic	l figu	ıre, a j	polyhe	edro	n.				
6.										
7.										
8.	The branch of mathematics that deals with lines, angles, shapes and solids is called									
9.										
10	10. A relationship between two quantities, e.g. 2:3.									