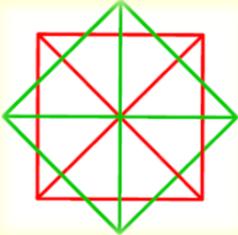
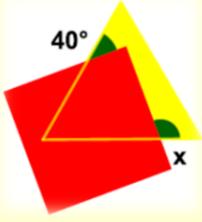
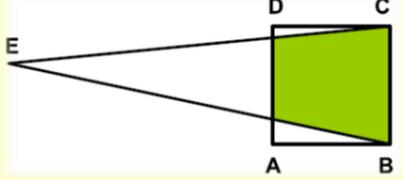
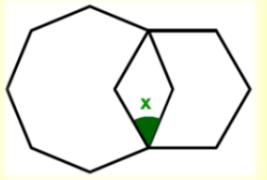


M A R C H	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUN.																		
		1  How many squares are in the figure? And triangles?	2 How many three-digit palindromes are multiples of three? And eleven? 	3  In the figure we have a square and an equilateral triangle. Find x	4 Don Twisted has invented this game: He gives you a number, if it is even you multiply it by two and add one, if it is odd you multiply it by three and add one. If after applying the rule to the number that Mr. Twisted has given you and twice in a row to each of the numbers you are getting, you reach 208, what number did Don Twisted give you? 			6																	
	7 Grandfather Gerardo has distributed his collection of coins among his six grandchildren. He gave Carlos half of what he had. He gave Ferran half of what he had left. He gave Dani half of what he had left and so he continued first with Laia, then with Aitana and finally with Clara and kept three coins. How many coins did he have at the beginning and how many did he give to each grandchild? 	8	9 The product of three different naturals is 30. What are the possible values of the sum of the three naturals? 	10 $\begin{array}{r} 795163 \\ - 496718 \\ \hline \end{array}$ Eliminate three digits in the top number and the bottom number so that the result of the new subtraction is the smallest possible	11 	12 Dani and other partners have formed the AVANT club. At the parties, each member has invited as many people as his peña partners. If it is known that there will be more than 66 attendees and less than 99, how many people will attend the event? 			13																
	14 How many triangles can we form that have their vertices at the vertices of a regular pentagon? And in a regular hexagon?  π day	15 Using the digits 8, 0, 7, 2, 6, 2, 5, 4 only once each, you have to generate four numbers with two digits less than 53 such that there are not two of them consecutive. Which are? 	16 Place all the natural numbers from 1 to 9 without repeating any in the attached matrix, taking into account that the outer numbers indicate the product of the numbers located in the row or column	17 One meter is one billion nanometres. To calculate the thickness of a leaf, Lucia, has observed that ten leaves measure one millimetre. How many nanometres is the thickness of a sheet? 	18 Dani has a sheet of dimensions 40 cmx20 cm. With three cuts, she divides this sheet into four equal rectangles. Each of these rectangles divides them into four equal ones, with the same type of cuts. This last operation she repeats twice. What is the perimeter of all the rectangles that are obtained at the end?	19 $\begin{array}{cccccc} 1 & A & B & C & D & E \\ & & & & & \times 3 \\ \hline & A & B & C & D & E & 1 \end{array}$ A, B, C, D, and E represent different digits. If the above product is well done, calculate the value of each letter			20																
	21 Calculate the possible values of A and B if the $\frac{3}{4}$ of the $\frac{2}{5}$ of A is equal to the $\frac{2}{3}$ of the $\frac{3}{5}$ of B 	22 Order from highest to lowest: $11^{525}, 1317^{175}, 37^{350}$ 	23 <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr><td></td><td></td><td></td><td style="text-align: right;">21</td></tr> <tr><td></td><td></td><td></td><td style="text-align: right;">60</td></tr> <tr><td></td><td></td><td></td><td style="text-align: right;">288</td></tr> <tr><td style="text-align: right;">112</td><td style="text-align: right;">72</td><td style="text-align: right;">45</td><td></td></tr> </table>				21				60				288	112	72	45		24 The area of square ABCD is 16 cm ² and that of triangle ΔBCE is 32 cm ² . Find the area of the shaded trapezoid 	25	26 In the figure there is a regular hexagon and regular octagon. Find the measure of angle x 			27
				21																					
				60																					
				288																					
	112	72	45																						
	28 Aitana has written on a sheet of paper all the natural numbers that she can write. Laia has deleted those that, according to her, are prime numbers and has added them, obtaining 230. The older brother, Dani, congratulates Aitana because he has not forgotten any number and tells Laia that he has added a number that is not Prime number. Up to what number has Aitana written? What number has Laia considered a prime number and she is not? 	29	30 Dani collects geometric figures. Half of the ones he has are triangles, a third of the rest are circles, and a quarter of the ones that remain are trapezoids. If he has 20 trapezoids, how many triangles and circles does he have? 	31 There are 200 people in a movie theatre. 130 of them are women. Also, there are 90 people who wear glasses. If half the men wear glasses, how many women don't? 	