



MATHEMATICS RELAY ROUND SOLUTIONS

#	ANS	Problem statement	P
E+-1	3	Nüx has three moira daughters,	3p
E+-2	36	The area of a rectangle is 64 cm^2 ,	3p
E+-3	40	Hapi, the god of the annual flooding of the Nile	3p
E+-4	13	In Eldorado a year has 20 months, and each month has 20 days.	3p
E+-5	50	King Minos divided his rectangular island of Crete	4p
E+-6	1296	Archimedes drew a square with side length 36 cm	4p
E+-7	1000	One day Mnemosyne decided to colour all natural numbers	4p
E+-8	17	Zoli wants to fill the given 4×4 table	4p
E+-9	5	The binary sudoku is a puzzle	5p
E+-10	12	Marvin really likes pancakes, so he asked his grandma	5p
E+-11	1349	A country has 2023 cities and there are flights between these cities.	5p
E+-12	900	Zeus's lightning is made of a copper rod of length 60	5p
E+-13	6732	Csongi bought a 12-sided convex polygon-shaped pizza.	6p
E+-14	4	For the Dürer final results announcement,	6p
E+-15	240	What is the biggest positive integer which divides $p^4 - q^4$	6p
E+-16	1514	What is the remainder of	6p