XVIII. Dürer Competition

Final Round (07-09. 02. 2025.)

Relay round - Solutions

E+ category

#	ANS	Problem statement	P
E+-1	16	How many ways are there to express 13860	3p
E+-2	256	Molli and Tamás are organizing a trip to the country of Hashtagonia	3p
E+-3	5	How many positive four-digit integers are there	3p
E+-4	113	In each January of the next 30 years,	3p
E+-5	6130	How many ways are there to place 5 rooks	4p
E+-6	19	Let $ABCD$ be a trapezoid whose sides AB and CD	4p
E+-7	60	The police have captured 16 suspects	4p
E+-8	12	There are two integers written on the board.	4p
E+-9	641	Anett and Andris live in a country where	5p
E+-10	17	In the top row of a two-row table, Benedek wrote	5p
E+-11	80	In the coordinate system of the plane,	5p
E+-12	272	Let A, B, C and D be four distinct points	5p
E+-13	3072	Csabi, the snail, has a house which consists of	6p
E+-14	67	Let x be a real number satisfying $\sin^{10}(x) + \cos^{10}(x) = \frac{11}{36}$.	6p
E+-15	23	Csongi is drawing line segments one by one into his squared notebook,	6p
E+-16	1350	The Baker Street tram station has a strict schedule of trams arriving	6p