Warning: The interactivity in this PDF file is enabled by Javascript. For full funcitonality you have to use the Javascript capable PDF browser. Currently only Adobe Reader is available.

COMBIN

TABLE–SELECTION GAME

Select one correct answer for each of the questions in the test and press the Finish button at the end. The answers will be validated automatically.

Co-funded by the Erasmus+ Programme of the European Union

Without calculator, simplify and evaluate the following expressions (for $n \in \mathbb{N}$). For each expression choose its correct value and if it isn't in the table, choose X.

		1	2	3	4	5	6	7	X
1.	$\frac{3}{(4-4)!}$	☐	☐	☐	☐	☐	☐	☐	☐
2.	$\frac{5!-4!}{2\cdot 3!}$	☐	☐	☐	☐	☐	☐	☐	☐
3.	$\frac{6!+2\cdot 5!-15\cdot 3!}{5!+4!+5\cdot 3!}$	☐	☐	☐	☐	☐	☐	☐	☐
4.	$\frac{n!}{(n-2)!}-\frac{2(n+1)!}{(n-1)!}+\frac{(n+2)!}{n!}$, $n\neq 1$	☐	☐	☐	☐	☐	☐	☐	☐
5.	$\frac{n^2-4}{(n+2)!}+\frac{3}{(n+1)!}-\frac{1}{n!}$	☐	☐	☐	☐	☐	☐	☐	☐
6.	$\binom{4}{2}$	☐	☐	☐	☐	☐	☐	☐	☐
7.	$\binom{7}{3}-\binom{8}{6}$	☐	☐	☐	☐	☐	☐	☐	☐
8.	$2\cdot\binom{9}{2}-6\cdot\binom{6}{3}+\binom{8}{4}-\binom{7}{5}$	☐	☐	☐	☐	☐	☐	☐	☐