The CENTRE for EDUCATION in MATHEMATICS and COMPUTING

Mathematics and Computer Science 2018/2019 contests

Beaver Computing Challenge
Weeks of November 5 and 12, 2018

Canadian Senior and Intermediate Mathematics Contests
Wednesday, November 21, 2018

Canadian Computing Competition
Wednesday, February 20, 2019

Pascal, Cayley and Fermat Contests
Tuesday, February 26, 2019

Euclid Contest
Wednesday, April 3, 2019

Canadian Team Mathematics Contest
Tuesday, April 9, 2019 — at UWaterloo
Wednesday, April 10, 2019 or after — in schools

Fryer, Galois and Hypatia Contests
Wednesday, April 10, 2019

Gauss Contests
Wednesday, May 15, 2019

Grid with row products 56, 135, 48 and column products 21, 108, 160. The bottom-middle square is marked N.

Francesca put the integers 1, 2, 3, 4, 5, 6, 7, 8, 9 in the nine squares in the grid. She put one integer in each square and used no integer twice. She calculated the product of the three integers in each row and wrote the products to the right of the corresponding rows. She calculated the product of the integers in each column and wrote the products below the corresponding columns. Finally, she erased the integers from the nine squares. Which integer was in the square marked N?

A. 3   B. 8   C. 9   D. 6   E. 4