Product of 4 Consecutive Integers Plus 1:

A. From algebra we know:

$$n \times (n+1) \times (n+2) \times (n+3) + 1 = [n \times (n+3) + 1]^2$$

B. Using numbers instead of variables we get:

1. Multiply the first and last of the consecutive numbers together.
2. Add 1 to step 1.
3. Square the result of step 2.

Ex [1] 5 x 6 x 7 x 8 + 1=_____.

a) 5 x 8 = 40.

b) $(40 + 1)^2 = 1681$.

c) The answer is 1681.

Ex [2] 9 x 10 x 11 x 12 + 1 =_____.

a) 9 x 12 = 108.

b) $(108 + 1)^2 = 11881$. See *Multiplying Numbers Greater Than 100*.

c) The answer is 11881.