

OPERATIONS WITH EXPONENTS – POWER OF A POWER

NAME: _____

Evaluate the following.

(01). $(2^4)^2$

(02). $(3^2)^{-1}$

(03). $(2^3)^2 + 2^0$

(04). $(5^2)^{-1} + \frac{1}{5}$

(05). $(4^0)^2 \times (2^2)^{-1} \times 1$

(06). $\{(5^2)^0\}^4$

(07). $\left(\frac{2}{3}\right)^2 + \left(\frac{1}{4}\right)^2$

(08). $(30^{101})^0 - \left(\frac{2}{5}\right)^3$

(09). $(2^{-2})^2 - (3^{-2})^{-1}$

(10). $(0.75^2)^0 + (5^{-1})^2$

(11). $\frac{5^3 \times 5^{-1}}{(5^2)^2}$

(12). $\frac{(2^2)^{-1} \times (5^2)^3}{125 \times (3^{-1})^2}$