

(student name in English)

(matthayom/group)

(student number)

EXPONENT MULTIPLICATION HOMEWORK ANSWERS

- Order from smallest to largest:
If $a = 3^4$, $b = 2^{10}$, $c = 5^0$, $d = 4^2$ $c < d < a < b$ $1 < 16 < 81 < 1,024$
- Order from largest to smallest:
If $a = 2^{0+2}$, $b = 3^{6-0}$, $c = 6^{1-1 \times 1}$, $d = 3^{-2 \times 2}$ $b > d > a > c$ $729 > 81 > 4 > 1$
- Order from smallest to largest:
If $a = 4^{4+1}$, $b = 5^{10-2 \times 5}$, $c = 3^{3-2}$, $d = 5^{-3+6}$ $b < c < d < a$ $1 < 3 < 125 < 1,024$
- Order from largest to smallest:
If $a = 2^0$, $b = 5^{1 \times 5}$, $c = 3^4$, $d = 4^{(4-3) \times 3}$ $b > c > d > a$ $3,125 > 81 > 64 > 1$
- Simplify: $5^{3+0} \cdot 5^{2-1}$ 5^4
- Simplify: $(4^2)^3 \cdot 2^5$ $(2^2)^6 \cdot 2^5 = 2^{12} \cdot 2^5 = 2^{17}$
- Simplify: $(5^3)^0 \cdot 3^2$ $1 \cdot 3^2 = 3^2 = 9$
- $(-2)^2 \cdot 3^3 + 2^4$ is the same as: $(2)^2 \cdot 3^3 + 2^4$
- $(-4)^3 \cdot 2^3 + 3^0$ is the same as: $4^3 \cdot 2^3 + 1$
- $(-4)^0 \cdot 4 + 2^2$ is the same as: $4 + 2^2$
- $(2^0)^2 + (2 \cdot 3^2)^2$ is the same as: $1 + 6^4$
- Solve the equation: $5^{x+1} = 4^{x+1}$ $x = -1$
- $4^5 \cdot 4^2 = 16^7$ True False
- $4^1 \cdot 4^0 = 4^1$ True False
- $-(-x)^3 = x^3$ True False
- $(ab)^m = a^m b^m$ True False
- $(r^x)^y \cdot r^{xy} = r^{2xy}$ True False