Nom : _____ MATH 8

Le Châtelard

Test 1	Puissances

Exercice 1 Calculer :

a) $3^1 =$ ☐ b) $1^3 =$ ☐ c) $0^7 =$ ☐ d) $7^0 =$ ☐

e) $9^2 =$ ☐ f) $2^9 =$ ☐ g) $11^2 =$ ☐ h) $3^4 =$ ☐

Exercice 2 Calculer :

a) $0^{57} =$ ☐ b) $5^2 =$ ☐ c) $7^2 =$ ☐ d) $(-4)^3 =$ ☐

e) $(-10)^2 =$ ☐ f) $(-4)^1 =$ ☐ g) $(-2)^4 =$ ☐ h) $10^4 =$ ☐

Exercice 3 Calculer :

a) $0.5^2 =$ ☐ b) $0.7^1 =$ ☐ c) $0.1^2 =$ ☐ d) $-0.7^2 =$ ☐

e) $\left(-\frac{1}{4}\right)^3 =$ ☐ f) $0.2^5 =$ ☐ g) $0.5^1 =$ ☐ h) $0.4^3 =$ ☐

Exercice 4 Calculer :

a) $-4^3 \div 8^2 =$ ☐ b) $6^1 - 6^2 =$ ☐ c) $\frac{(-2)^3}{2^0} =$ ☐ d) $6^2 \div (-2^4) =$ ☐

e) $-(-2)^2 =$ ☐ f) $\left(-\frac{2}{3}\right)^{-2} =$ ☐ g) $\left(\frac{1}{10^{-2}}\right)^{-1} =$ ☐ h) $(10^{-1})^0 =$ ☐

Exercice 5 Calculer :

a) $2^1 \cdot 2^3 \cdot 5^4 =$ ☐ b) $(-5)^3 \cdot 2^3 =$ ☐ c) $\frac{2^3 \cdot 2^5 \cdot 2}{(-2)^5 \cdot 2^2} =$ ☐

d) $\frac{(-5)^6 \cdot 2^5}{10^5} =$ ☐ e) $5^{40} \div (-5)^{39} =$ ☐ f) $\frac{4^3 \cdot (-3)^6 \cdot 2}{2^6 \cdot (-9)} =$ ☐

g) $\frac{3^{51} \cdot 3^3}{(-3)^{30} \cdot (-9)^{11}} =$ ☐ h) $\frac{3^{28} \cdot (-4)^{11}}{8^7 \cdot (-9)^{14}} =$ ☐