

Math Grade 9
Assignment: #2 Exponents

1. Evaluate the following:

A) 2^5

B) $(-3)^4$

C) $(-2)^3$

D) -5^2

E) -2^5

F) -81^0

G) $-(-3)^4$

H) $-(-4)^3$

I) $-(18)^0$

2. Evaluate:

A) $[5^0 + 3^2] - 6^2$

B) $6^2 * 2 - 5^2$

C) $[6^0 + 7^0 + 8^0] - 3 * 2^2$

D) $7^2 + 2^3 \div 4$

3. Expand to (Base 10) form:

A) 31502

B) 28001

4. Write in Standard Form:

A) $(8 * 10^5) + (6 * 10^3) + (5 * 10^0)$

B) $(7 * 10^3) + (5 * 10^2) + (3 * 10^1)$

5. Write as a Single Power.

A) $21^7 * 21^8$

B) $13^9 \div 13^3$

C) $(-7)^7 \div (-7)$

D) $(14^3)^3$

E) $\frac{5}{2}^3$

F) $\frac{3^3}{2^2}^5$

G) $2^4 \div 2 * 2^5$

H) $[7^3 * 7^2] * [7^8 \div 7^3]$

I) $[6^2 * 6^4] * [6^8 \div 6^5]^2$

J) $\frac{3^9 * 3^4}{(3^2)^5}$

6. Evaluate

A) $(-5)^2 + (-5)^0 + (-5)^2$

B) $(3^2)^2 + 3^0 - (3^5 \div 3^3)$

C) $[8^0 + 8^2 * 8^3 - 8^4]^0$