Name: _____ Date: _____

Mathematics — Expanded and Exponential Form

Rewrite each expression using exponents.

example: $7 \times 7 \times 7 \times 7 - 7^4$

6^5 , 3^4 , 2^7 , 31^6 , 9^2 , 14^3

a. $6 \times 6 \times 6 \times 6 \times 6$ _____

b. $3 \times 3 \times 3 \times 3$ _____

c. $2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2$ _____

d. 9×9 _____

e. $31 \times 31 \times 31 \times 31 \times 31 \times 31$ _____

f. $14 \times 14 \times 14$ _____

Rewrite each exponent in expanded form.

example: $5^6 - 5 \times 5 \times 5 \times 5 \times 5 \times 5$

g. 8^4 - _____

h. 4^9 - _____

i. 13^2 - _____

j. 100^6 - _____

Rewrite each exponent in standard form.

example: $6^3 - 216$

k. 5^2 _____

l. 7^4 _____

m. 4^3 _____

n. 9^3 _____

o. 11^2 _____

p. 2^6 _____

The meaning of Zero

Fill in the blanks with the correct number

1. 9 + 0 = _____

2. 163 – 0 = _____

3. 0 + 29 = _____

4. 200 + 224 + 0 = _____

5. 25 – 4 - 0 = _____

6. 6 x 0 x 8 = _____

7. 13 x 0 = _____

8. 0 ÷ 8 = _____

9. 7 + 0 + 13 = _____

10. 19 + 0 – 5 = _____

11. 0 ÷ 16 = _____

12. 5 x 0 + 7 = _____