

NAME: _____ GRADE: _____ DATE: _____

EXPONENTS

1. Identify the base and exponent.

a) 4^2

b) 9^3

c) 3^{11}

d) 5^{22}

Base: _____

Base: _____

Base: _____

Base: _____

Exponent: _____

Exponent: _____

Exponent: _____

Exponent: _____

2. Fill in the blanks.

a) 4^2 Four to the _____ of _____

b) 9^3 nine _____ (hint: one word)

c) 6^{12} = _____ to the _____ power

d) 7^{22} = seven to the _____ power

3. Simplify each expression by writing them in index form. (Use this symbol ^ to represent)

a) $3 \times 3 \times 3$ = _____

b) $4 \times 4 \times 4 \times 4$ = _____

c) $7 \times 7 \times 7 \times 7 \times 7$ = _____

d) $10 \times 10 \times 10 \times 10 \times 10$ = _____

4. Expand (do not put any spaces in your answer)

a) 9^2 = _____

b) 8^2 = _____

c) 5^6 = _____

5. Evaluate

a) 2^7 = _____

b) 9^2 = _____

c) 5^4 = _____

d) 3^4 = _____

e) 10^3 = _____