

Name: _____

Exponents

Rewrite each expression using exponents.

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

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 _____

n. 9^3 _____

l. 7^4 _____

o. 1^{12} _____

m. 4^3 _____

p. 2^6 _____

ANSWER KEY

Exponents

Rewrite each expression using exponents.

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

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

6^5

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

3^4

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

2^7

d. 9×9

9^2

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

31^6

f. $14 \times 14 \times 14$

14^3

Rewrite each exponent in expanded form.

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

g. $8^4 =$ $8 \times 8 \times 8 \times 8$

h. $4^9 =$ $4 \times 4 \times 4 \times 4 \times 4 \times 4 \times 4 \times 4 \times 4$

i. $13^2 =$ 13×13

j. $100^6 =$ $100 \times 100 \times 100 \times 100 \times 100 \times 100$

Rewrite each exponent in standard form.

example: $6^3 = 216$

k. $5^2 =$ 25

n. $9^3 =$ 729

l. $7^4 =$ $2,401$

o. $1^{12} =$ 1

m. $4^3 =$ 64

p. $2^6 =$ 64