

Exponents

Concept

An Exponent is a number that states how many times the base number is to be used in multiplication



Exponent

Base → $3^2 = 3 \times 3 = 9$

2 times

Example

$$4^3 = 4 \cdot 4 \cdot 4$$
$$4^3 = 16 \cdot 4$$
$$4^3 = 64$$

base

exponent

3 times



$$x^1 = x$$

Zero Exponent Property

$$a^0 = 1$$

($a \neq 0$)

Assignment

1 $2^2 = \dots\dots$

2 $3^2 = \dots\dots$

3 $4^2 = \dots\dots$

4 $7^1 = \dots\dots$

5 $5^3 = \dots\dots$

6 $6^6 = \dots\dots$

7 $3^3 = \dots\dots$

8 $2^8 = \dots\dots$

9 $4^4 = \dots\dots$

10 $7^4 = \dots\dots$

11 $11^2 = \dots\dots$

12 $21^0 = \dots\dots$

13 $9^1 = \dots\dots$

14 $1^0 = \dots\dots$

15 $8^2 = \dots\dots$

16 $2^5 = \dots\dots$

17 $3^5 = \dots\dots$

18 $5^5 = \dots\dots$

19 $7^7 = \dots\dots$

20 $100^1 = \dots\dots$

21 $25^1 = \dots\dots$