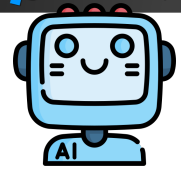
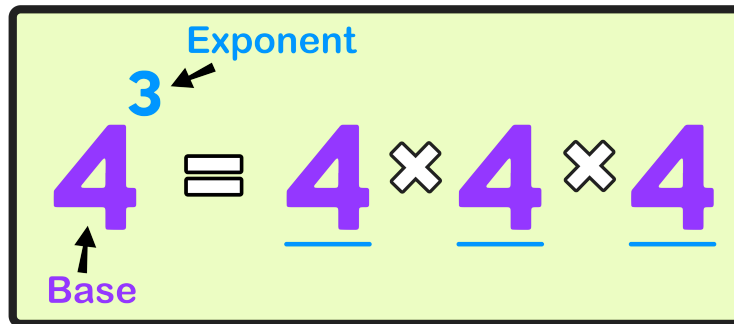


Name: \_\_\_\_\_



# Writing Exponents



**Directions:** Rewrite each of the following exponents in expanded form and then solve. The first example has already been completed for you.

1.)  $2^3 = 2 \times 2 \times 2 = 8$

6.)  $8^3 = \underline{\hspace{2cm}}$

2.)  $4^2 = \underline{\hspace{2cm}}$

7.)  $10^5 = \underline{\hspace{2cm}}$

3.)  $3^3 = \underline{\hspace{2cm}}$

8.)  $12^2 = \underline{\hspace{2cm}}$

4.)  $5^4 = \underline{\hspace{2cm}}$

9.)  $7^4 = \underline{\hspace{2cm}}$

5.)  $6^2 = \underline{\hspace{2cm}}$

10.)  $1^8 = \underline{\hspace{2cm}}$

**Directions:** Rewrite each of the following using exponents. The first example has already been completed for you.

11.)  $9 \times 9 \times 9 = 9^3$

16.)  $8 \times 8 \times 8 \times 8 \times 8 = \underline{\hspace{2cm}}$

12.)  $6 \times 6 \times 6 \times 6 = \underline{\hspace{2cm}}$

17.)  $2 \times 2 \times 2 = \underline{\hspace{2cm}}$

13.)  $10 \times 10 \times 10 = \underline{\hspace{2cm}}$

18.)  $7 \times 7 \times 7 \times 7 \times 7 \times 7 = \underline{\hspace{2cm}}$

14.)  $4 \times 4 \times 4 = \underline{\hspace{2cm}}$

19.)  $3 \times 3 = \underline{\hspace{2cm}}$

15.)  $12 \times 12 = \underline{\hspace{2cm}}$

20.)  $5 \times 5 \times 5 \times 5 = \underline{\hspace{2cm}}$

## ANSWER KEY

1.)  $2^3 = 2 \times 2 \times 2 = 8$

2.)  $4^2 = 2 \times 2 = 16$

3.)  $3^3 = 3 \times 3 \times 3 = 27$

4.)  $5^4 = 5 \times 5 \times 5 \times 5 = 625$

5.)  $6^2 = 6 \times 6 = 36$

6.)  $8^3 = 8 \times 8 \times 8 = 512$

7.)  $10^5 = 10 \times 10 \times 10 \times 10 \times 10 = 100,000$

8.)  $12^2 = 12 \times 12 = 144$

9.)  $7^4 = 7 \times 7 \times 7 \times 7 = 2,401$

10.)  $1^8 = 1 \times 1 \times 1 \times 1 \times 1 \times 1 \times 1 \times 1 = 1$

11.)  $9 \times 9 \times 9 = 9^3$

12.)  $6 \times 6 \times 6 \times 6 = 6^4$

13.)  $10 \times 10 \times 10 = 10^3$

14.)  $4 \times 4 \times 4 = 4^3$

15.)  $12 \times 12 = 12^2$

16.)  $8 \times 8 \times 8 \times 8 \times 8 = 8^5$

17.)  $2 \times 2 \times 2 = 2^3$

18.)  $7 \times 7 \times 7 \times 7 \times 7 \times 7 = 7^6$

19.)  $3 \times 3 = 3^2$

20.)  $5 \times 5 \times 5 \times 5 = 5^4$