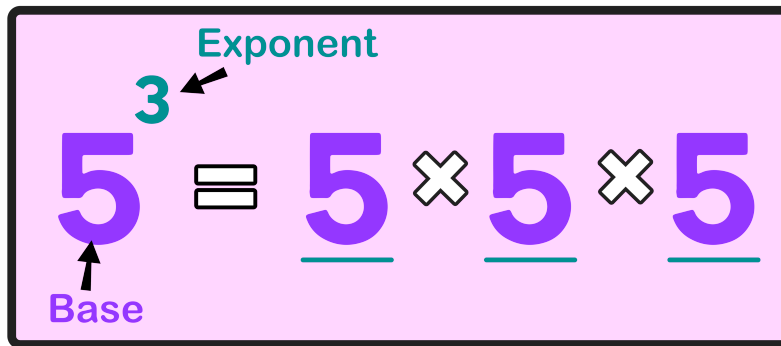


Name: _____



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.) $3^4 = 3 \times 3 \times 3 \times 3 = 81$

6.) $3^8 =$ _____

2.) $10^2 =$ _____

7.) $5^3 =$ _____

3.) $8^3 =$ _____

8.) $11^2 =$ _____

4.) $4^5 =$ _____

9.) $2^4 =$ _____

5.) $7^2 =$ _____

10.) $6^5 =$ _____

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

11.) $2 \times 2 \times 2 \times 2 = 2^4$

16.) $4 \times 4 \times 4 \times 4 \times 4 \times 4 =$ _____

12.) $12 \times 12 \times 12 =$ _____

17.) $11 \times 11 \times 11 =$ _____

13.) $8 \times 8 \times 8 \times 8 \times 8 =$ _____

18.) $7 \times 7 \times 7 \times 7 \times 7 \times 7 \times 7 =$ _____

14.) $7 \times 7 \times 7 =$ _____

19.) $10 \times 10 =$ _____

15.) $9 \times 9 =$ _____

20.) $3 \times 3 \times 3 \times 3 =$ _____

ANSWER KEY

1.) $3^4 = 3 \times 3 \times 3 \times 3 = 81$

2.) $10^2 = 10 \times 10 = 100$

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

4.) $4^5 = 4 \times 4 \times 4 \times 4 \times 4 = 1,024$

5.) $7^2 = 7 \times 7 = 49$

6.) $3^8 = 3 \times 3 \times 3 \times 3 \times 3 \times 3 \times 3 \times 3 = 6,561$

7.) $5^3 = 5 \times 5 \times 5 = 125$

8.) $11^2 = 11 \times 11 = 121$

9.) $2^4 = 2 \times 2 \times 2 \times 2 = 16$

10.) $6^5 = 6 \times 6 \times 6 \times 6 \times 6 = 7,776$

11.) $2 \times 2 \times 2 \times 2 = 2^4$

12.) $12 \times 12 \times 12 = 12^3$

13.) $8 \times 8 \times 8 \times 8 \times 8 = 8^5$

14.) $7 \times 7 \times 7 = 7^3$

15.) $9 \times 9 = 9^2$

16.) $4 \times 4 \times 4 \times 4 \times 4 \times 4 = 4^6$

17.) $11 \times 11 \times 11 = 11^3$

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

19.) $10 \times 10 = 10^2$

20.) $3 \times 3 \times 3 \times 3 = 3^4$