



Rewriting Exponents

Grade 5 Exponents Worksheet

Date: _____

Name: _____

LET'S MAKE LEARNING FUN

Rewrite the following exponents using repeated multiplication and calculate the value.

Example: $3^2 = 3 \times 3 = 9$

1. $6^2 =$ _____.

2. $7^4 =$ _____.

3. $4^4 =$ _____.

4. $9^3 =$ _____.

5. $11^2 =$ _____.

6. $2^8 =$ _____.

7. $3^3 =$ _____.

8. $5^4 =$ _____.

Rewrite the following expressions using exponents.

Example: $5 \times 5 = 5^2$

9. $7 \times 7 \times 7 \times 7 =$ _____.

10. $8 \times 8 \times 8 =$ _____.

11. $5 \times 5 \times 5 =$ _____.

12. $6 \times 6 \times 6 \times 6 \times 6 =$ _____.

13. $18 \times 18 =$ _____.

14. $4 \times 4 \times 4 \times 4 \times 4 \times 4 =$ _____.

15. $9 \times 9 \times 9 \times 9 \times 9 =$ _____.

16. $15 \times 15 \times 15 =$ _____.



Rewriting Exponents

Rewrite the following exponents using repeated multiplication and calculate the value.

Example: $3^2 = 3 \times 3 = 9$

- $6^2 = 6 \times 6 = 36$.
- $7^4 = 7 \times 7 \times 7 \times 7 = 2,401$.
- $4^4 = 4 \times 4 \times 4 \times 4 = 256$.
- $9^3 = 9 \times 9 \times 9 = 729$.
- $11^2 = 11 \times 11 = 121$.
- $2^8 = 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 = 256$.
- $3^3 = 3 \times 3 \times 3 = 27$.
- $5^4 = 5 \times 5 \times 5 \times 5 = 625$.

Rewrite the following expressions using exponents.

Example: $5 \times 5 = 5^2$

- $7 \times 7 \times 7 \times 7 = 7^4$.
- $8 \times 8 \times 8 = 8^3$.
- $5 \times 5 \times 5 = 5^3$.
- $6 \times 6 \times 6 \times 6 \times 6 = 6^5$.
- $18 \times 18 = 18^2$.
- $4 \times 4 \times 4 \times 4 \times 4 \times 4 = 4^6$.
- $9 \times 9 \times 9 \times 9 \times 9 = 9^5$.
- $15 \times 15 \times 15 = 15^3$.