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6th Grade Exponents Worksheets

1. What is the value of 9000^0 ?



2. Rewrite the numbers in the exponent form.

- a) 10000
- b) 870000
- c) 340000000000
- d) 99

3. Find the value of:

- a) 10^2
- b) 7^3
- c) 4^4
- d) 10^4

What will be the exponent form of each of following?

- 4. $10 \times 10 \times 10 \times 10 \times 10 = \underline{\hspace{2cm}}$
- 5. $7 \times 7 \times 7 \times 7 \times 7 \times 7 \times 7 \times 7 = \underline{\hspace{2cm}}$
- 6. $3 \times 3 \times 3 + 14 \times 14 \times 14 \times 14 \times 14 = \underline{\hspace{2cm}}$

Write the given exponent form into expanded form.

7.	8.	9.	10.
6^4	12^3	8^9	21^0

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- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

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ANSWERS

1. 1	6. $3^3 + 14^5$
2. a) $10000 = 10^4$ b) $870000 = 87 \times 10^4$ c) $340000000000 = 34 \times 10^9$ d) $99 = 99^1$	7. $6 \times 6 \times 6 \times 6$
3. a) $10^2 = 100$ b) $7^3 = 343$ c) $4^4 = 256$ d) $10^4 = 10000$	8. $12 \times 12 \times 12$
4. 10^5	9. $8 \times 8 \times 8 \times 8 \times 8 \times 8 \times 8 \times 8 \times 8$
5. 7^8	10. 1

FUN FACT

1. Zero raised to any power is zero.
Example: $0^{21} = 0$
2. One raised to any power is one.
Example: $1^{21} = 1$
3. Any number raised to the zero power is one.
Example: $120^0 = 1$

