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6th Grade Exponents Worksheets

Write the base and the exponent of each of the following in the given table.

	A	B	C
1.	6^3	2^3	8^7
2.	17^6	20^3	11^0



What will be the exponent form of each of the following?

3. $0 \times 0 \times 0 \times 0 \times 0 =$ _____

4. $9 \times 9 \times 9 \times 9 \times 9 \times 9 \times 9 \times 9 =$ _____

5. $3 \times 3 \times 3 + 7 \times 7 \times 7 \times 7 \times 7 =$ _____

Write the exponent form into expanded form.

	A	B	C
6.	1^9	8^3	10^7
7.	9^6	17^3	8000^0



Find the value of:

8. 1^{50}

9. 100^5

10. 1000^0

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Why choose Cuemath?

"Cuemath is a valuable addition to our family. We love solving puzzle cards. My daughter is now visualizing maths and solving problems effectively!"

- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- 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."

- Barbara Cabrera

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**ANSWERS**

1. a. Base - 6 Exponent - 3 b. Base - 2 Exponent - 3 c. Base - 8 Exponent - 7	6. a. $1 \times 1 \times 1 \times 1 \times 1 \times 1 \times 1 \times 1 \times 1$ b. $8 \times 8 \times 8$ c. $10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10$
2. a. Base - 17 Exponent - 6 b. Base - 20 Exponent - 3 c. Base - 11 Exponent - 0	7. a. $9 \times 9 \times 9 \times 9 \times 9 \times 9$ b. $17 \times 17 \times 17$ c. 1
3. 0	8. 1
4. 9^8	9. 1000000000
5. $3^3 + 7^5$	10. 1

FUN FACT

1. Earth measures
5,974,000,000,000,000,000,000 kilograms
= 5974×10^{21} kilograms.
2. Length of a year is 31,560,000.0 seconds
= 3.156×10^7 seconds
3. Mass of the sun:
1,989,000,000,000,000,000,000,000,000,000 grams
= 1.989×10^{33} grams

