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6th Grade Exponents Worksheets



Rewrite each expression form into exponent form.

1. $1 \times 1 \times 1 \times 1 \times 1 =$ _____

2. $8 \times 8 \times 8 \times 8 \times 8 \times 8 \times 8 \times 8 =$ _____

3. $5 \times 5 \times 5 + 9 \times 9 \times 9 \times 9 \times 9 =$ _____

Write the exponent form into expanded form.

	a	b	c
4.	6^3	2^3	8^7
5.	17^6	20^3	11^0

Write the base and the exponent of each of the following.

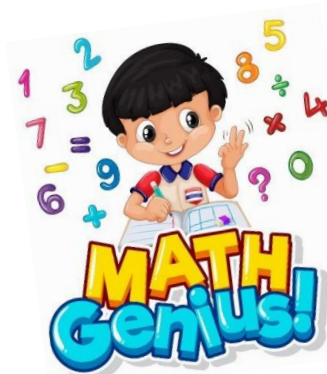
	a	b	c
6.	1^{30}	8^3	10^7
7.	9^{60}	17^3	1000^0

Find the value of:

8. 2^5

9. 10^5

10. 14^0



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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. 1^5	6. a. Base - 1 Exponent - 30 b. Base - 8 Exponent - 3 c. Base - 10 Exponent - 7
2. 8^8	7. a. Base - 9 Exponent - 60 b. Base - 17 Exponent - 3 c. Base - 1000 Exponent - 10
3. $5^3 + 9^5$	8. 32
4. a. $6 \times 6 \times 6$ b. $2 \times 2 \times 2$ c. $8 \times 8 \times 8 \times 8 \times 8 \times 8 \times 8$	9. 100000
5. a. $17 \times 17 \times 17 \times 17 \times 17 \times 17$ b. $20 \times 20 \times 20$ c. 1	10. 1

FUN FACT

1. The distance of Moon from Earth is calculated to be 3.84×10^8 km.
2. The speed of the light is 3×10^8 meters/second.
3. Earth is about 4.5 billion years old. This means that the age of the Earth is 4.5×10^9 years.
4. Exponents are useful to write huge numbers conveniently.

