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Prime Factorization Worksheets 6th Grade

Make a factor tree for the following numbers.

1. 72
2. 450
3. 50
4. 81
5. 100
6. 54

7. Find the prime factorization of 350. Write using exponents.

8. Write 87 as its product of prime factors.

9. Factor the following numbers to their prime factors to check whether the number is prime?

A. 50

B. 83

10. What is the greatest prime factor of 150?

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in an interesting way,
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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. | $2 \times 2 \times 2 \times 3 \times 3$ |
| 2. | $2 \times 3 \times 3 \times 5 \times 5$ |
| 3. | $2 \times 5 \times 5$ |
| 4. | $3 \times 3 \times 3 \times 3$ |
| 5. | $2 \times 2 \times 5 \times 5$ |
| 6. | $2 \times 3 \times 3 \times 3$ |
| 7. | $2^1 \times 3^1 \times 5^3$ |
| 8. | 3×29 |
| 9. | A. $50 = 2 \times 5 \times 5$, not a prime number B. $83 = 1 \times \mathbf{83}$, a prime number |
| 10. | $2 \times 3 \times 5 \times 5$ |

FUN FACT

- An easy trick to remember the order of PEMDAS is "Please Excuse My Dear Aunt Sally".
- Many mnemonics following order of operations are used along with PEMDAS worldwide, like BODMAS, BEDMAS, and BIDMAS.

