

Prime Factorization Notes

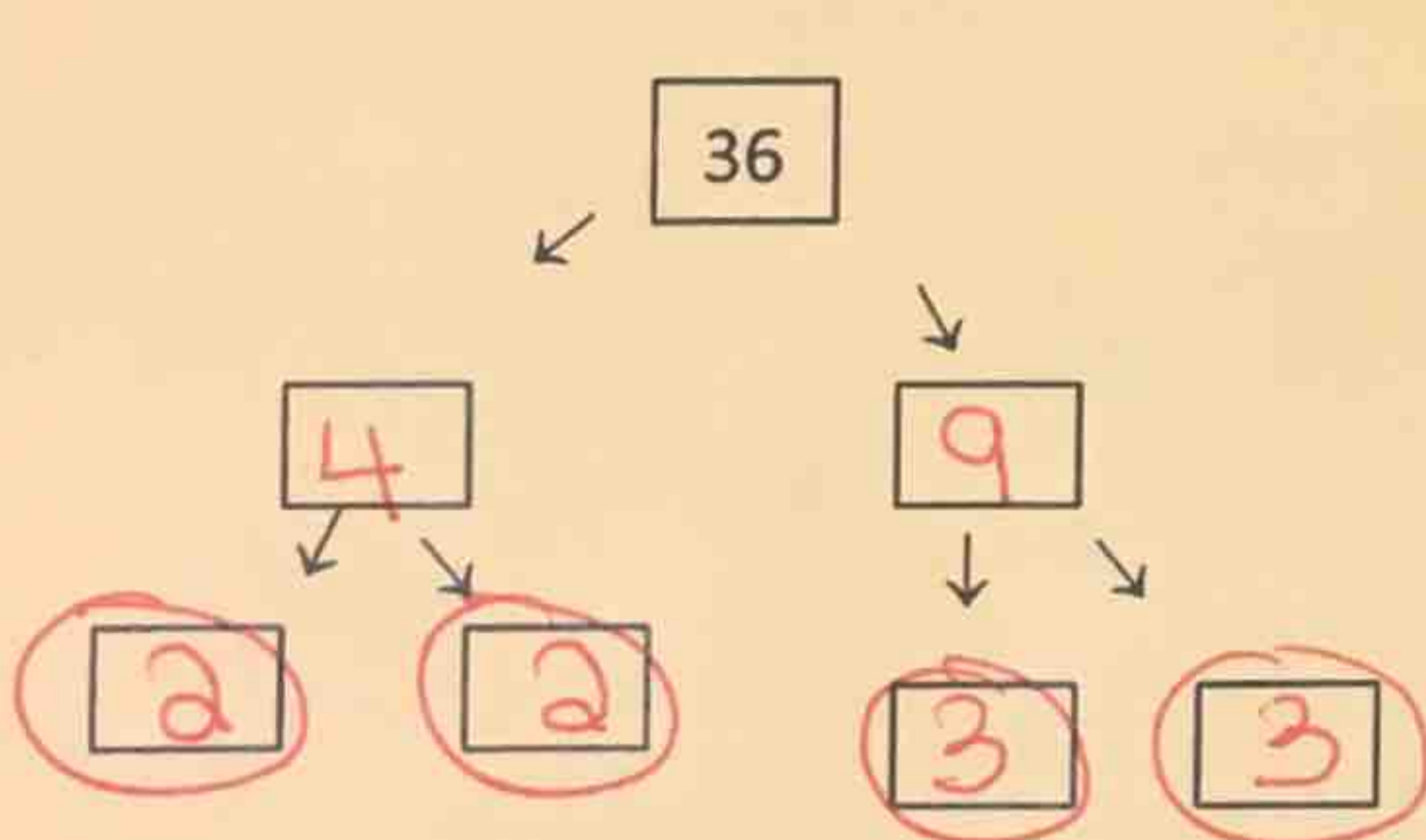
Prime Factorization- the result of a string of prime numbers that are multiplied to get a product.

Tree Method for finding prime factorization

Steps:

- ~~1. Write down the number to be factored~~
2. Choose a factor pair to break down the composite number.
3. If those factors are not prime, break number down until you get a prime number.
4. Circle all the prime factors
5. Write all the prime factors in a multiplication sentence
6. If possible write the expression in exponential form

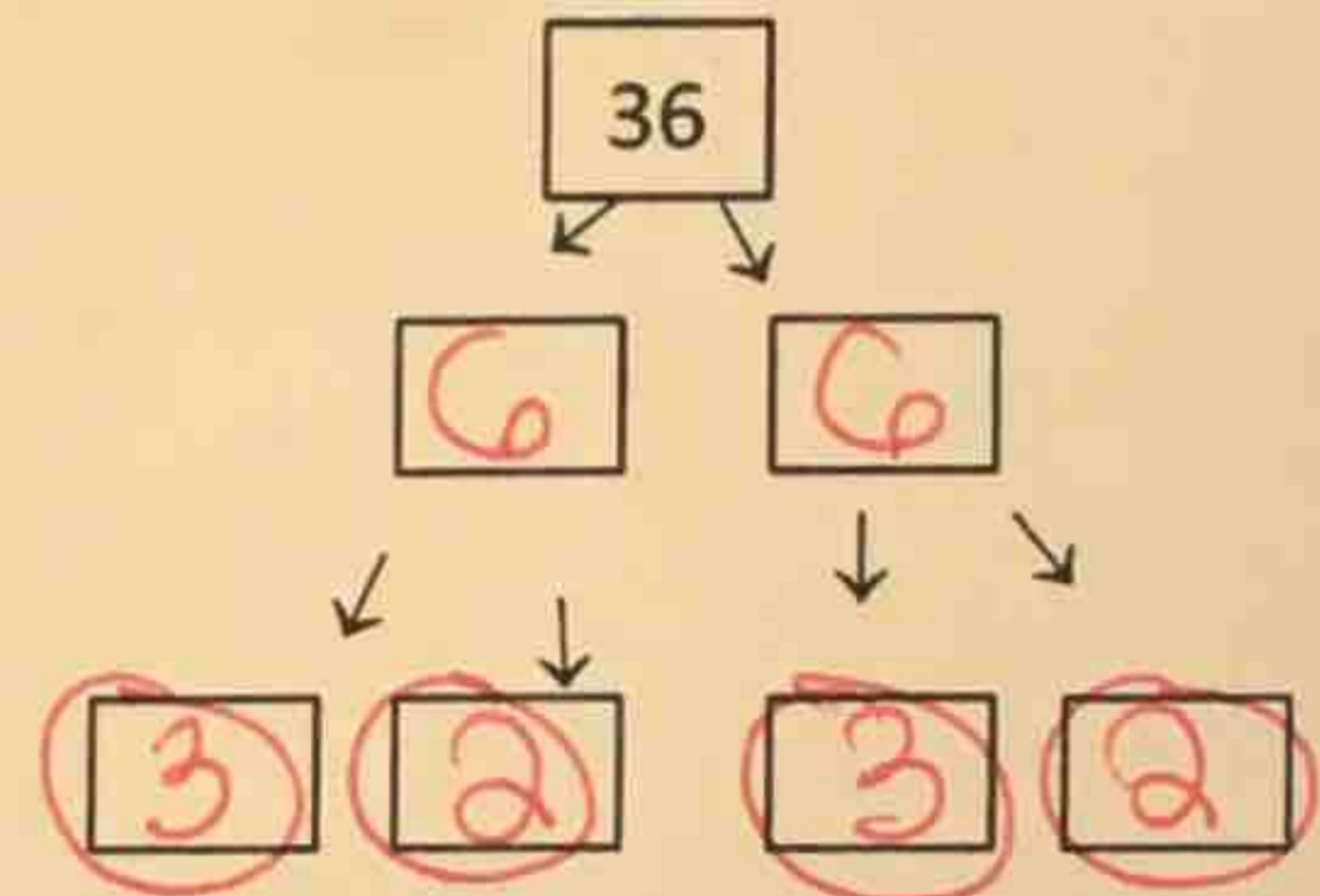
Try 36 with two sets of factor pairs
Factors- (1, 2, 3, 4, 6, 9, 12, 18, 36)



$$2 \cdot 2 \cdot 3 \cdot 3$$

$$\boxed{2^2 \cdot 3^2}$$

Prime Factorization: _____



$$2 \cdot 2 \cdot 3 \cdot 3$$

$$\boxed{2^2 \cdot 3^2}$$

Prime Factorization: _____

Find the Prime Factorization of the following numbers using trees:

