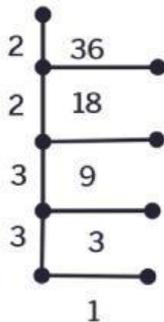




Express the numbers in Exponential Notation

- Any number can be expressed in the exponential form, by using the **prime factorization method**.
- Prime factorization helps to express any given number as **product of primes**

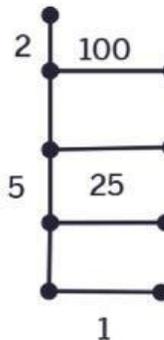
1. Express 36 using the exponential notation



$$36 = 2 \times 2 \times 3 \times 3$$

$$36 = 2^2 \times 3^2 \rightarrow \text{Exponential notation}$$

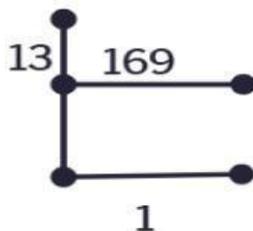
2. Express 100 using the exponential notation



$$100 = 2 \times \quad \times \quad \times 5$$

$$100 = \square^2 \times \square^2 \rightarrow \text{Exponential notation}$$

3. Express 169 using the exponential notation

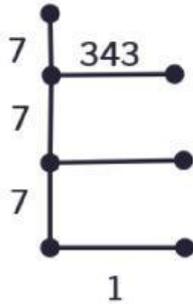


$$169 = \quad \times 13$$

$$169 = \square^2 \rightarrow \text{Exponential notation}$$



4. Express 343 using the exponential notation

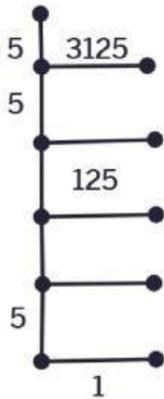


$$343 = \underline{\quad} \times \underline{\quad} \times 7$$

$$343 = \square^3$$

→ Exponential notation

5. Express 3125 using the exponential notation

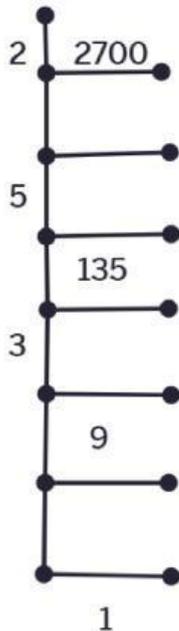


$$3125 = \underline{\quad} \times \underline{\quad} \times 5 \times \underline{\quad} \times 5$$

$$3125 = \square^5$$

→ Exponential notation

6. Express 2700 using the exponential notation



$$2700 = \underline{\quad} \times \underline{\quad} \times 5 \times \underline{\quad} \times 3 \times \underline{\quad} \times 3$$

$$2700 = \square^2 \times \square^3 \times \square^2$$

→ Exponential notation