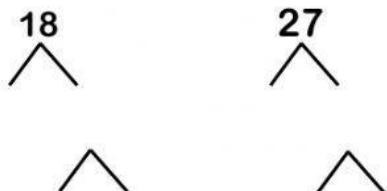


Name _____

Finding HCF and LCM Using Prime Factorization

- Find the HCF and LCM using prime factorization.
- For the factor tree and ladder method **start** with the **smallest** prime number that can be used.
- When listing prime factors, list the prime factors in **ascending order**.

A.



18: ____ x ____ x ____

27: ____ x ____ x ____

HCF: ____

LCM: ____

B.



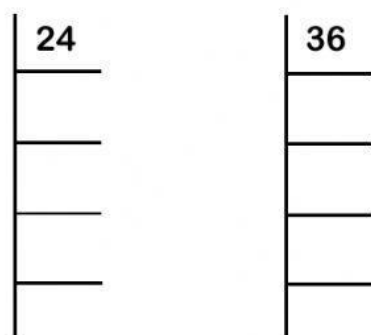
20: ____ x ____ x ____

30: ____ x ____ x ____

HCF: ____

LCM: ____

C.



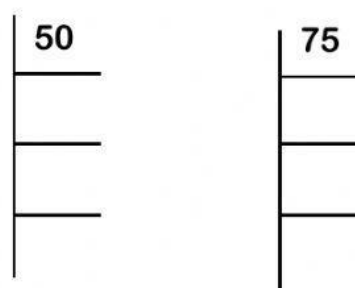
24: ____ x ____ x ____ x ____

36: ____ x ____ x ____ x ____

HCF: ____

LCM: ____

D.



50: ____ x ____ x ____

75: ____ x ____ x ____

HCF: ____

LCM: ____

The prime factorizations of certain numbers are given. Use the factors to find the HCF and LCM.

$$28 = 2 \times 2 \times 7$$

$$42 = 2 \times 3 \times 7$$

$$70 = 2 \times 5 \times 7$$

HCF: _____

LCM: _____

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

$$54 = 2 \times 3 \times 3 \times 3$$

HCF: _____

LCM: _____

$$180 = 2 \times 2 \times 3 \times 3 \times 5$$

$$120 = 2 \times 2 \times 2 \times 3 \times 5$$

HCF: _____

LCM: _____