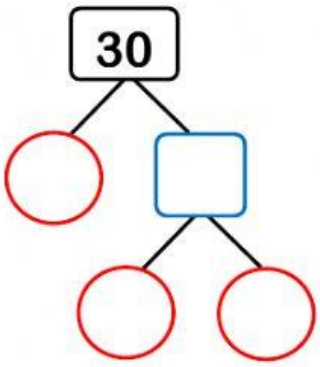
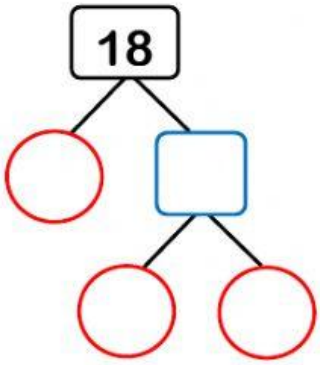
Name _____

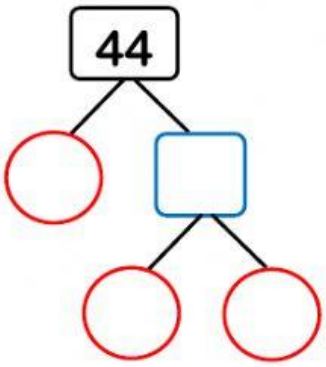
Prime Factorization

Complete the factor tree. Express the numbers as a product of its prime factors. DO NOT WRITE IN EXPONENTIAL FORM.

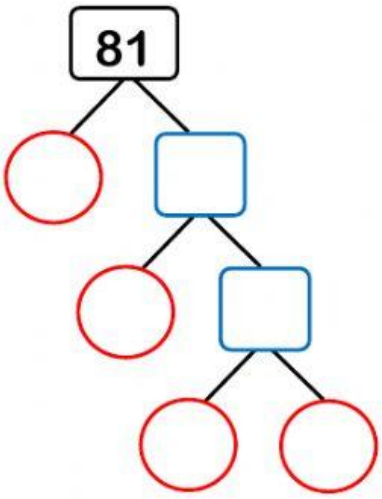
Hint: Prime numbers should be in the red circles and composite numbers in the blue boxes.

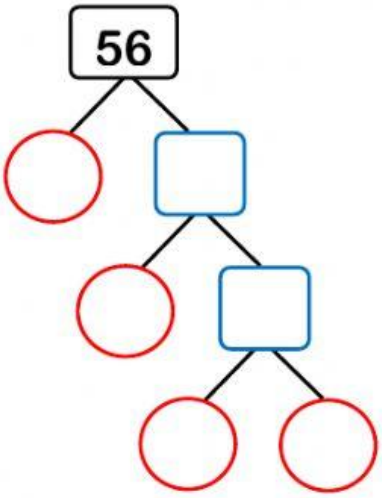






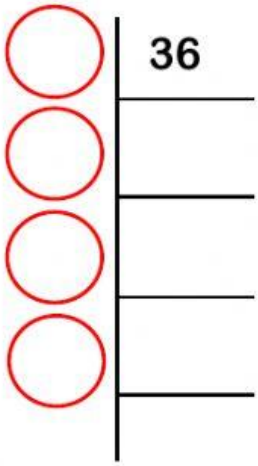
30 = _____ x _____ x _____ **18 = _____ x _____ x _____** **44 = _____ x _____ x _____**

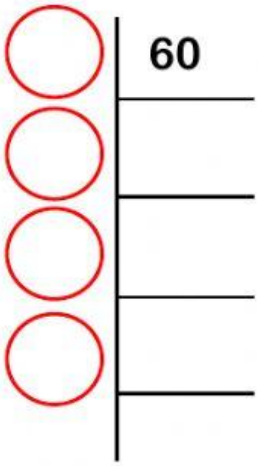




81 = _____ x _____ x _____ x _____ **56 = _____ x _____ x _____ x _____**

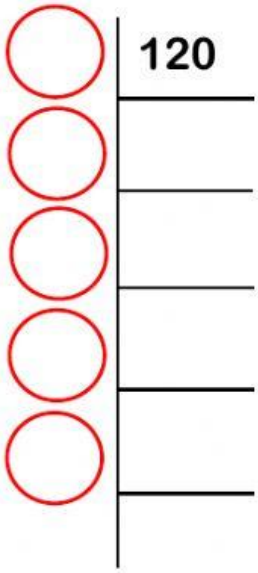
Use the ladder method to express the numbers as a product of its prime factors. DO NOT WRITE IN EXPONENTIAL FORM.





36 = _____ x _____ x _____ x _____

60 = _____ x _____ x _____ x _____



120 = _____ x _____ x _____ x _____ x _____

Drag and drop the prime factors in index form next to the product.

i. 63 = _____

ii. 40 = _____

iii. 72 = _____

iv. 28 = _____

$2^2 \times 7$

$2^3 \times 3^2$

$2^3 \times 5$

$3^2 \times 7$