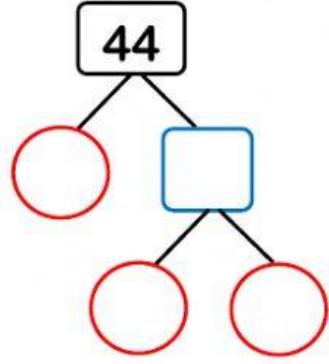
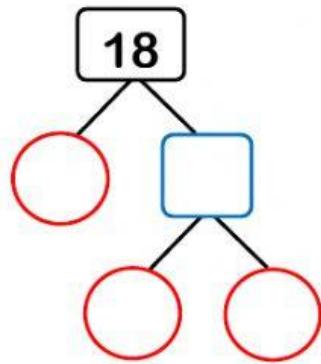
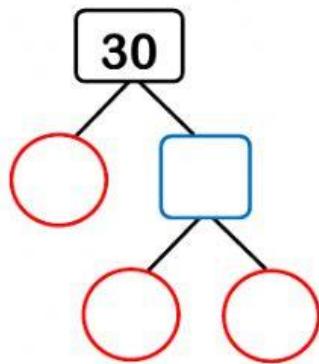


Name _____

Prime Factorization

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

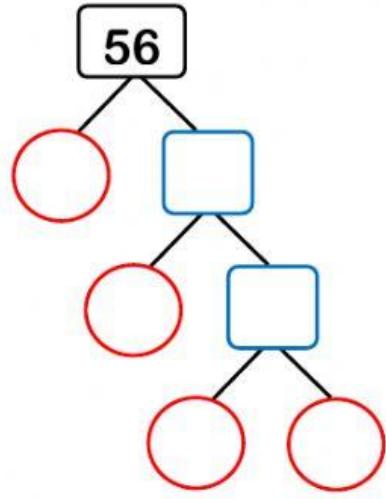
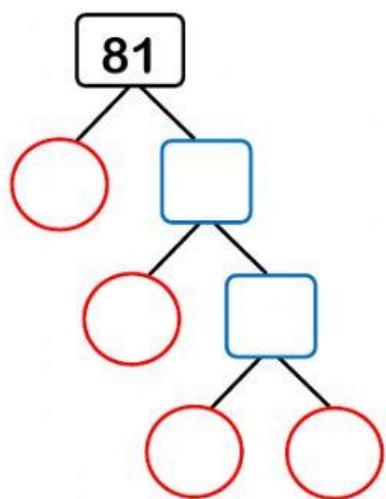
Hint: Prime numbers should be in the red circles and composite numbers in the blue boxes.



$$30 = \underline{\quad} \times \underline{\quad} \times \underline{\quad}$$

$$18 = \underline{\quad} \times \underline{\quad} \times \underline{\quad}$$

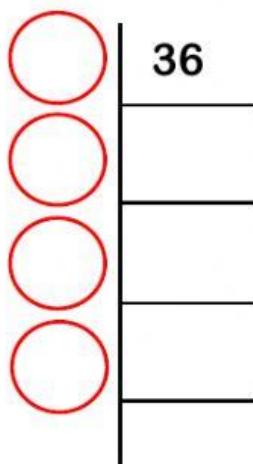
$$44 = \underline{\quad} \times \underline{\quad} \times \underline{\quad}$$



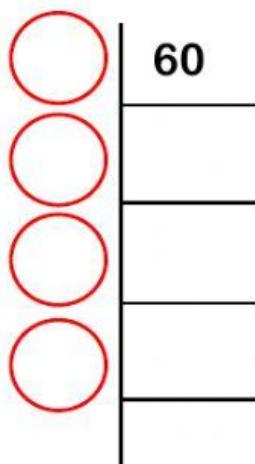
$$81 = \underline{\quad} \times \underline{\quad} \times \underline{\quad} \times \underline{\quad}$$

$$56 = \underline{\quad} \times \underline{\quad} \times \underline{\quad} \times \underline{\quad}$$

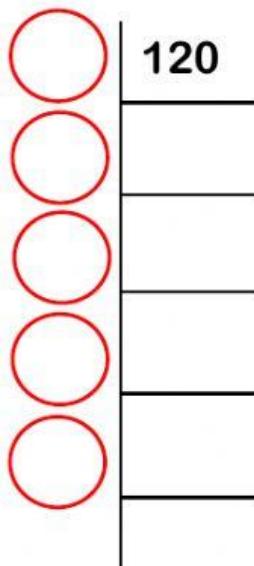
Use the ladder method to express the numbers as a product of its prime factors. DO NOT WRITE IN EXPONENTIAL FORM.



$$36 = \underline{\quad} \times \underline{\quad} \times \underline{\quad} \times \underline{\quad}$$



$$60 = \underline{\quad} \times \underline{\quad} \times \underline{\quad} \times \underline{\quad}$$



$$120 = \underline{\quad} \times \underline{\quad} \times \underline{\quad} \times \underline{\quad} \times \underline{\quad}$$

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

i. $63 = \underline{\quad}$

$$2^2 \times 7$$

ii. $40 = \underline{\quad}$

$$2^3 \times 3^2$$

iii. $72 = \underline{\quad}$

$$2^3 \times 5$$

iv. $28 = \underline{\quad}$

$$3^2 \times 7$$