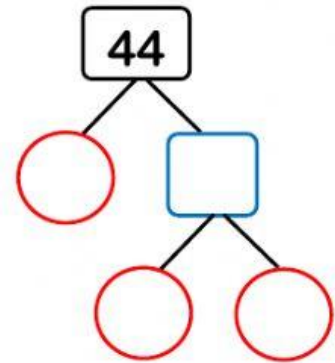
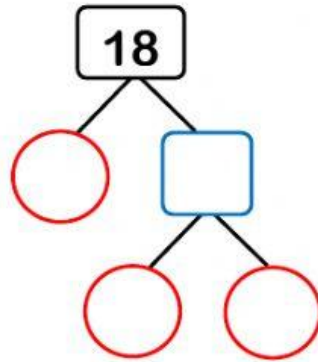
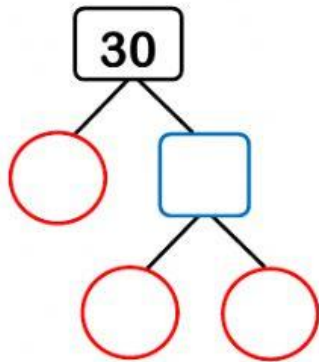


Name _____

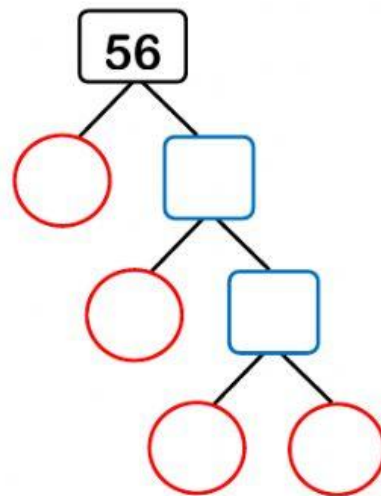
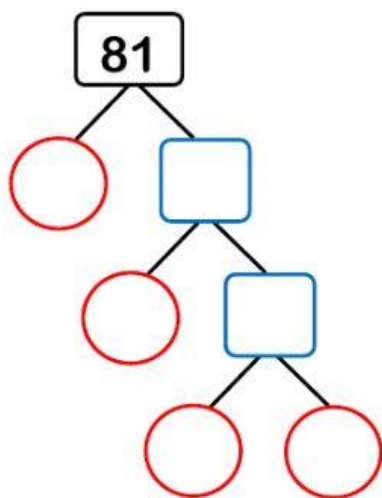
Prime Factorization

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.



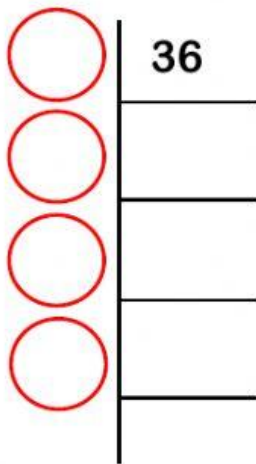
$30 = \underline{\quad} \times \underline{\quad} \times \underline{\quad}$ $18 = \underline{\quad} \times \underline{\quad} \times \underline{\quad}$ $44 = \underline{\quad} \times \underline{\quad} \times \underline{\quad}$



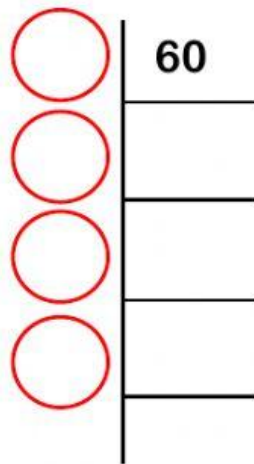
$81 = \underline{\quad} \times \underline{\quad} \times \underline{\quad} \times \underline{\quad}$

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

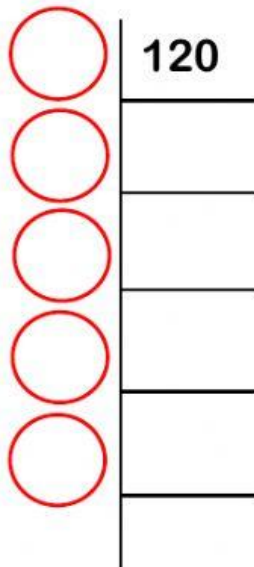
Use the ladder method to express the numbers as a product of its prime factors. DO NOT WRITE IN EXPONENTIAL FORM.



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



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



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

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

i. $63 = \underline{\hspace{2cm}}$

ii. $40 = \underline{\hspace{2cm}}$

iii. $72 = \underline{\hspace{2cm}}$

iv. $28 = \underline{\hspace{2cm}}$

$$2^2 \times 7$$

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

$$2^3 \times 5$$

$$3^2 \times 7$$