

Name:

### Prime Factorization- Ladder Method

Find the Prime Factors of the following numbers. Be sure to list the prime factors in order from least to greatest.

Examples:

2	40
2	20
2	10
5	5
	1

2	36
2	18
3	9
3	3
	1

2	126
3	63
3	21
7	7
	1

$$\text{Prime factorization of } 40 = 2 \times 2 \times 2 \times 5$$

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

$$126 = 2 \times 3 \times 3 \times 7$$

1.

	24

$$\underline{\quad} \times \underline{\quad} \times \underline{\quad} \times \underline{\quad} = 24$$

2.

	50

$$\underline{\quad} \times \underline{\quad} \times \underline{\quad} = 50$$

3.

	27

$$\underline{\quad} \times \underline{\quad} \times \underline{\quad} = 27$$

4.

	84

$$\underline{\quad} \times \underline{\quad} \times \underline{\quad} \times \underline{\quad} = 84$$