

Lesson 1 Prime Factorization

Name _____



Directions: If you click on one of the two above icons they will allow an instructional video to play and illustrate. Factors are numbers that you multiply together to get another number. When a factor is a prime number, it is called a prime factor. For example the prime factors of 12 are $2 \times 2 \times 3$. So 2, 2 and 3 are prime factors of 12. Find the prime factors of the numbers listed below. See the example

$$\begin{aligned} 16 &= 2 \times 8 \\ &= 2 \times 2 \times 4 \\ &= 2 \times 2 \times 2 \times 2 \end{aligned}$$

$$\begin{aligned} 36 &= 4 \times 9 \\ &= \square \times \square \times \square \times \square \end{aligned}$$

$$\begin{aligned} 48 &= 4 \times 12 \\ &= \square \times \square \times \square \times \square \\ &= \square \times \square \times \square \times \square \times \square \end{aligned}$$

$$\begin{aligned} 56 &= 7 \times \square \\ &= \square \times \square \times \square \\ &= \square \times \square \times \square \times \square \end{aligned}$$