Date: January 17, 2022

Subject: Mathematics

Topic: Prime Factorization (Ladder Method) Classwork

Objectives

Students will be able to:

Calculate the answers to questions on finding the prime factorization of a number

Reminder Ladder Method Steps:

- 1. List the first ten prime numbers
- Look at the smallest prime number that can be divided into the number given and place that number on the left side of the ladder
- 3. Divide the prime number into the given number (show your working on the side). Place your answer on the right hand side underneath the given number.
- 4. Repeat steps 2 and 3 until your answer is "1" on the right hand side
- 5. The numbers on the left are a part of your answer. Place your answer by putting the answers from smallest to largest with a multiplication sign in between each number.
- Place your answer in index form (putting back the base number and putting the amount of the base number seen as the power).



Classwork:

Instructions: Express each of the following numbers as a product of its prime factors.

- 1. 25
- 2. 45
- 3. 50
- 4. 200
- 5. 175

