Mathematics 9 Prime Factorization

A. Elementary Short Division Review

In Elementary School you were taught how to do short division of numbers.

$$\begin{array}{ccc} & & & & & & & & & \\ & & & & & & & \\ 1) & & & & & & & \\ \end{array}$$

2)
$$5)260$$

4)
$$12)4092$$

B. Prime Numbers and Composite Numbers

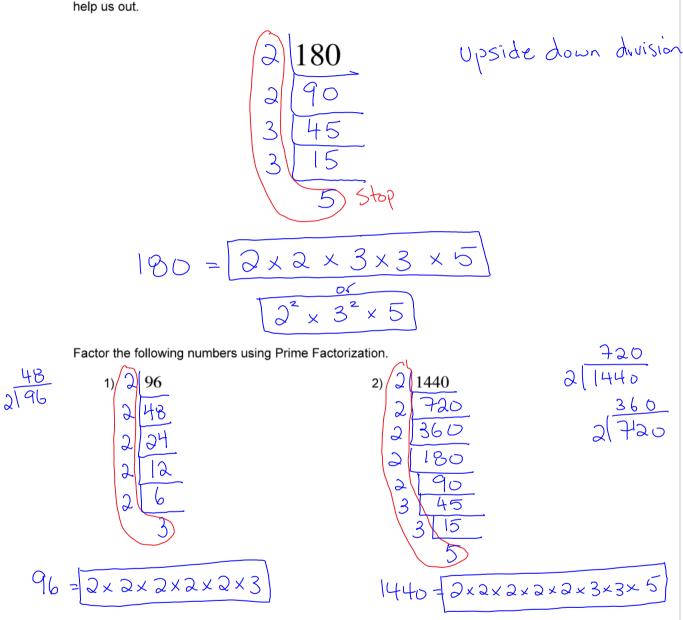
A number which is only divisible by one and itself (two divisors) is called a **prime number**. A number which has more than two factors is called a **composite number**.

Can you list the first 10 prime numbers?

2,3,5,7,11,13,17,19,23,29...

C. Prime Factorization

Prime Factorization is a method of breaking a number down into the prime numbers which multiply to the given number. We can use a form of elementary short division to help us out



Assignment: Prime Factorization Assignment #1 - 16

Mathematics 9 Prime Factorization Assignment

A. Factor the following numbers using Prime Factorization.

1. 42

2. 72

3. 90

4. 100

5. 156

6. 168

7. 225

8. 252

10. 459 9. 378 11. 525 12. 550 13. 588 14. 756 15. 900 16. 1575