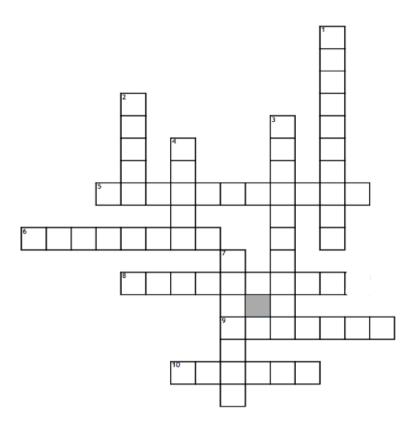# Real Numbers
Worksheet 1

Name: **Grade: X**

Subject: Mathematics   **Date:**

CROSSWORD

Across

5. decimal expansion of $63/35$ is

6. -------- numbers have either terminating or non-terminating epeating decimal expansion .

8. ------ is a sequence of well defined steps to solve any problem.

9. The-------expansion of rational nimbers is terminating if the denominator has 2&5 as its only factors.

10. -------- division algorithum is used to find the HCF of two positive numbers.

Down

1. numbers having non-terminating non-repeating decimal expansion are known as

2. The------- factorization of composite numbers is unique.

3. fundamental theorem of ---------------- states that every composite number can be uniquely exprressed as a product of primes aprt from the order of factors

4. A proven statement used as a stepping stone towards the proof of another statement is known as

7. For any two numbers,HCF x LCM =----------of numbers.

RIDDLE TIME

Solve this famous problem/riddle. Explain your thought process.

A trader was moving along a road selling eggs. An idler who didn't have much work to do started to get the trader into a wordy duel. This grew into a fight, he pulled the basket with eggs and dashed it on the floor. The eggs broke. The trader requested the Panchayat to ask the idler to pay for the broken eggs. The Panchayat asked the trader how many eggs were broken. He gave the following response:

> If counted in pairs, one will remain;
> If counted in threes, two will remain;
> If counted in fours, three will remain;
> If counted in fives, four will remain;
> If counted in sixes, five will remain;
> If counted in sevens, nothing will remain;
> My basket cannot accommodate more than 150 eggs.

Find the number of eggs in the basket.