



GCD (HCF) & LCM

PHP

```
<html>
  <body>
    <form method="post">
      Enter Number 1 : <input type="number"
        name="number_1" required><br>
      Enter Number 2 : <input type="number"
        name="number_2" required><br>
      <input type="submit" value="Submit" name="submit">
    </form>
  </body>
</html>

<?php
  if(isset($_POST["submit"])) {
    $num1 = $_POST["number_1"];
    $num2 = $_POST["number_2"];
    //GCD
    $min = ($num1 < $num2) ? $num1 : $num2;
    for($i=1;$i<=$min;$i++) {
      if($num1%$i==0 && $num2%$i==0) {
        $gcd = $i;
      }
    }
    //LCM
    $max = ($num1 > $num2) ? $num1 : $num2;
    $i = $max;
    while(1) {
      if($i%$num1==0 && $i%$num2==0) {
        $lcm = $i;
        break;
      }
      $i+=$max;
    }
    echo "GCD of $num1 and $num2 is $gcd<br>LCM of $num1 and
    $num2 is $lcm";
  }
?>
```