

**Name:**

**Date:**

1. Prove that  $\sqrt{11}$  is irrational.
2. Show that  $3\sqrt{5}$  is irrational.
3. Determine whether  $91/375$  has a terminating decimal expansion.  
Also state the number of decimal places.
4. Find the HCF and LCM of 126, 168 and 252.
5. The school assembly bell rings every 36 minutes, while the sports period bell rings every 54 minutes. If both ring together at 8:00 AM, after how much time will they ring together again?
6. Use Euclid's Division Algorithm to find the HCF of 864 and 540.