

**Name:**

**Date:**

1. Prove that  $\sqrt{19}$  is irrational.
2. Show that  $7 - \sqrt{3}$  is irrational.
3. Determine whether  $93/800$  has a terminating decimal expansion.
4. Find the HCF and LCM of 108, 162 and 216.
5. Two school buses leave the school campus at intervals of 48 minutes and 72 minutes respectively. If both buses leave together at 7:00 AM, after how much time will they leave together again?
6. Use Euclid's Division Algorithm to find the HCF of 882 and 588.