

Name:

Date:

1. Prove that $\sqrt{13}$ is irrational.
2. Show that $5 + \sqrt{7}$ is irrational.
3. Determine whether $119/480$ has a terminating decimal expansion.
4. Find the HCF and LCM of 144, 180 and 240.
5. Aarav and Vihaan are jogging around a school ground. Aarav completes one round in 44 minutes while Vihaan completes one round in 66 minutes. If both start together, after how many minutes will they meet again at the starting point?
6. Find the HCF of 693 and 495 using Euclid's Division Algorithm.