Worksheet: Real Numbers

IGCSE · Class 10 · Mathematics · 6 questions · 16 marks

Name: _____ Date: _____ Score: _____ / 16

Q1. Find the HCF and LCM of 96 and 404 by prime factorisation, and verify the HCF × LCM identity. *[3 marks]*

Q2. If HCF(72, 120) = 24, find LCM(72, 120) using the HCF × LCM identity. *[2 marks]*

Q3. Prove that 2 is irrational. *[3 marks]*

Q4. Prove that 5 23 is irrational, given that 3 is irrational. *[3 marks]*

Q5. Show that 12• can never end in the digit 5, for any natural number n. *[2 marks]*

Q6. Two tankers contain 850 L and 680 L of petrol. Find the maximum capacity of a container that can measure both quantities exactly (without any leftover). *[3 marks]*