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10^{TH} CBSE MATHS WORKSHEET JUNE 9 2025

1) Find the LCM and HCF of the following integers by applying the prime factorisation method.
17, 23 and 29

2) Find the LCM and HCF of the following integers by applying the prime factorisation method.
8, 9 and 25.

3) On GT road, three consecutive traffic lights change after 36, 42 and 72 s. If the lights are first switched on at 9.00 am, then at what time will they change simultaneously?

7) Explain whether $3 \times 12 \times 101 + 4$ is a prime number or a composite number

8) Can two numbers have 15 as their HCF and 175 as their LCM ? Give reasons.

9) Show that 7^n cannot end with the digit zero, for any natural number II.

18) Given that $\sqrt{2}$is irrational, prove that $(5+3\sqrt{2})$is an irrational number.

23) Prove that $-7-2\sqrt{3}$ is an irrational number, given that $\sqrt{3}$ is an irrational number.

27) If zeroes α and β of a polynomial x^2-7x+k are such that α-β=1, then find the value of k.

32) If zeroes of the polynomial $x^2 + 4x + 2a$ are α and $\frac{2}{\alpha}$, then find the value of a.

34) If one of the zeroes of the quadratic polynomial $f(x) = 14x^2 - 42k^2x - 9$ is negative of the order, find the value of 'k'.

52) Prove that $3 + 2\sqrt{5}$ is irrational.

53) Find the zeroes of the following quadratic polynomials and verify the relationship between the zeroes and the coefficients.
$4u^2 + 8u$

54) Find the zeroes of the following quadratic polynomials and verify the relationship between the zeroe and the coefficients.
$t^2 - 15$

68) If one zero of the polynomial $x^2 - 8x + k$ exceeds the other by 2, then find the zeroes and value of k.

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