

Q1 If HCF (a, b) = 18 and $a \times b = 1800$, then LCM(a, b) =
 a) 2600 b) 900 c) 180 d) 90

Q2 Which of the following is a pair of coprimes?
 a) (14, 35) b) (18, 95) c) (31, 93) d) (22, 42)

Q3 Determine prime factorisation of 30570

a) $2 \times 5 \times 11^2 \times 17$ b) $10 \times 11^2 \times 17$

c) $5 \times 3^4 \times 121$ d) $17 \times 10^2 \times 11$

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Q.10. Show that $5 - 2\sqrt{3}$ is an irrational number. (3)

Q.11 Find a quadratic polynomial each with the given numbers as sum and product of its zeroes $0, \sqrt{5}$ $x^2 + \sqrt{5}$ (2)

Q.12 Find the zeroes of the quadratic polynomial $2x^2 + x - 15$ and verify a relationship b/w the zeroes and its coefficients. (4)

Q.13 Factorise $2x^2 + 12\sqrt{2}x + 35$ and find the polynomial whose zeroes are twice of the given polynomials. (4)