



## MATHS

### FACTORISATION

All Questions

#### 1. Introduction of Factorisation



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## 2. Factors



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## 3. Factorization



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## 4. Factors of a monomial



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## 5. Common factors of two or more monomials



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6. Greatest common factor (gcf) or highest common factor (hcf) The greatest common factors of given monomials is the common factor having a greatest coefficient and highest power of the variables.



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7. Factorization of algebraic expressions when a common monomial factor occurs in each term



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8. Factorizations of algebraic expressions when a binomial is a common factor



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9. Grouping of the terms of an algebraic expression may lead to its factorization.



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10. Factorize each of the following expressions

: (i)  $a^3 + a^2(x - y) - a(y + z) - z$  (ii)

$$(x^2 + 3x)^2 - 5(x^2 + 3x) - y(x^2 + 3x) + 5y$$



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**11.** Factorization of binomial expressions  
expressible as the difference of two squares



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**12.** Factorization of algebraic expressions  
expressible as a perfect square



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**13.** Polynomials



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**14.** Factorize quadratic polynomial variable



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**15.** Factorize each of the following quadratic polynomials : (i)  $x^2 - 23x + 132$  (ii)

$x^2 - 21x + 108$  (iii)  $x^2 + 5x - 36$



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**16.** Factorization of quadratic polynomials of theorem  $ax^2 + bx + c$  and  $a \neq 1$



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**17.** Factorize :  $(2x + 3y)^2 - 5(2x + 3y) - 14$



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**18.** Factorization of quadratic polynomials by using method of completing the perfect



square



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