COVID 19- WEEKLY SCHOOL- GRADE 9 3rd WEEK - FEBRUARY **Unit 6 - Factors of Algebraic Expressions**

When factorizing algebraic expressions, we should consider the highest

common factor and take it out from the brackets as given below.

Ex :-

- 3x + 12 = 3(x + 4)
- $8m + 12 mn 16 mn^2 = 4m (2 + 3n 4n^2)$
- -4p + 2 6q = -2 (2p -1 + 3q)

> Do the review exercise for more examples.

Factors of algebraic expressions with four terms

In this lesson, we expect to learn how to write an expression of the form ax + bx + ay + by as a product of two factors as (a + b) (x + y).

Ex :- (i) ax + bx + ay + by= x(a+b) + y (a+b) = (a+b) (x+y) (ii) $3x^2 - xy + 6xy - 2y^2$ = x (3x - y) + 2y (3x - y) = (3x - y) (x + 2) (iii) -5a - 5 - 2ab - 2b= -5 (a + 1) - 2b (a + 1)= (a + 1)(-5 - 2b) > Do the exercise 6.1 for more examples.