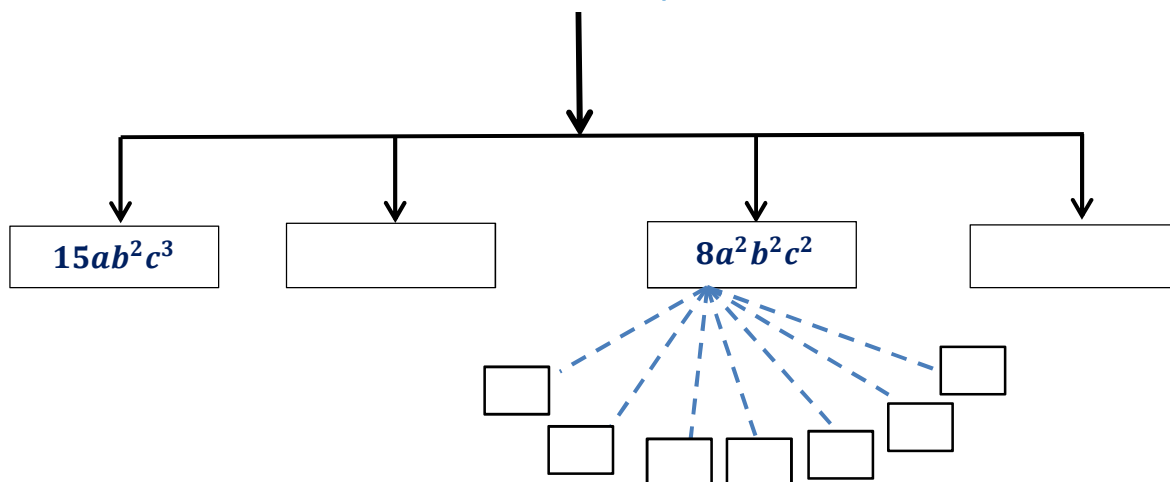


:ALGEBRAIC EXPRESSIONS:

TOPICS: Terms, Factors, Factor Tree, Co-efficients (Numerical and Literal)

CASE STUDY

$$15ab^2c^3 - 27a^3bc^4 + 8a^2b^2c^2 - 17$$



- Q1. Fill in the above boxes with proper answers.
- Q2. What are the factors of the 2nd term of the algebraic expression?
- Q3. Write down the variable part of the first term of the algebraic expression.
- Q4. Write down the numerical co-efficient of the term $-27a^3bc^4$?
- Q5. Write down the literal co-efficient of the term $8a^2b^2c^2$?
- Q6. Complete the factor tree diagram of the given algebraic expression.
- Q7. What is the co-efficient of bc^4 in the given algebraic expression?

Assertion (A): y can be considered as an algebraic expression.

Reason (R): It is possible to represent a variable as a combination of variables, constants and some arithmetic operations.

- (a) Both (A) and (R) are correct and (R) is the correct explanation of (A).
- (b) Both (A) and (R) are correct but (R) is not the correct explanation of (A).
- (c) (A) is false but (R) is true.
- (d) (A) is true but (R) is false.