

FUNDAMENTAL OPERATIONS

SUBJECT : MATHEMATICS CHAPTER NUMBER:19 CHAPTER NAME :FUNDAMENTALCONCEPTS AND OPERATIONS SUBTOPIC : RECAPITULATION OF CHAPTERS PERIOD NO: 7

CHANGING YOUR TOMORROW

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Learning outcomes

- Students will be able to identify like and unlike terms.
- Students will be able to add and subtract like and unlike terms.
- Students will be able to divide monomial by monomial.
- Students will be able to binomial by monomial.
- Students will be able to divide polynomial by polynomial.
- Students will be able to write a given statement in algebraic form.
- Students will be able to write a given algebraic form in suitable statement.
- Students will be able to define constants and variables.
- Students will be able to identify terms, like and unlike terms.
- Students will be able to define different types of algebraic expressions.
- Students will be able to find product of factors.
- Students will develop application skill.



FUNDAMENTAL CONCEPTS AND OPERATIONS

1.Write the coefficient of:

(i) $x \text{ in } -3xy^2$ (ii) x in -ax

(iii) y in -y (iv) y in (2 / a)y

2. One pencil costs Rs 2 and one fountain pen costs Rs 15. What is the cost of x pencils and y fountain pens?

3. Think of a number. Multiply by 5. Add 6 to the result. Subtract y from this result. What is the result?



FUNDAMENTAL CONCEPTS AND OPERATIONS

4. Subtract:

- (i) 5a 3b + 2c from a 4b 2c
- (ii) 4x 6y + 3z from 12x + 7y 21z
- (iii) 5 a 4b + 4c from 5a 7b + 2c

(iv) - 8x - 12y + 17z from x - y - z



FUNDAMENTAL CONCEPTS AND OPERATIONS

1. Add:

(i) 8xy and 3xy

(ii) 2xyz, xyz and 6xyz

(iii) 2a, 3a and 4b

(iv) 3x and 2y

2. Simplify:

(i) $2x^5 \div x^2$ (ii) $6a^8 \div 3a^3$

(iii) $20xy \div - 5xy$ (iv) $- 24a^2b^2c^2 \div 6ab$



Additional Homework

1. Binny spend Rs a daily and saves Rs b per week. What is her income for two weeks?

2. Evaluate:

(i) (a + b) (a - b).

(ii) $(a^2 + b^2) (a + b) (a - b)$, using the result of (i).

(iii) $(a^4 + b^4) (a^2 + b^2) (a + b) (a - b)$, using the result of (ii).



THANKING YOU ODM EDUCATIONAL GROUP

