

Chapter-12

classmate

Simplification - BODMAS Rule

WORKSHEET

NAME - PALLAVI NAYAK

STD - V

SEC - C

DATE - 5.12.21

I. Fill in the blanks :

a. Sums involving bar bracket are to be solved first.

b. These () brackets are called parentheses or common bracket.

c. In BODMAS "M" stands for multiplication.

d. We remove the square bracket last while simplifying.

e. While simplifying, subtraction is the last operation to be solved.

2. Simplify :

a) $76 \div 4 + 8 - 3 \times 2$

$$76 \div 4 + 8 - 3 \times 2$$

$$= 19 + 8 - 3 \times 2$$

$$= 19 + 8 - 6$$

$$= 27 - 6$$

$$= 21$$

b) $54 \div 9 \times 6 - 4 + 3 + 8$

$$= 6 \times 6 - 4 + 3 + 8$$

$$= 36 - 4 + 3 + 8$$

$$= 36 + 3 + 8 - 4$$

$$= 47 - 4$$

$$= 43$$

3. Simplify the following.

$$a. 12 - [20 \div \{8 - 2(9 - 5 - 2)\}]$$

$$= 12 - [20 \div \{8 - 2(9 - 7)\}]$$

$$= 12 - [20 \div \{8 - 2 \times 2\}]$$

$$= 12 - [20 \div \{8 - 4\}]$$

$$= 12 - [20 \div 4]$$

$$= 12 - 5$$

$$= 7$$

$$b. \quad 25 - \frac{1}{2} \{5 + 4 - (3 + 2 - 1 + 3)\}$$

$$= 25 - \frac{1}{2} \{5 + 4 - (3 + 2 + 2)\}$$

$$= 25 - \frac{1}{2} \{5 + 4 - 7\}$$

$$= 25 - \frac{1}{2} \{9 - 7\}$$

$$= 25 - \frac{1}{2} \times \frac{2}{1}$$

$$= 25 - 1$$

$$= 24$$

$$c. \quad 0.4 \div [1.5 \div \{0.6 \div (0.3 - 0.3 - 0.1)\}]$$

$$= 0.4 \div [1.5 \div \{0.6 \div (0.3 - 0.2)\}]$$

$$= 0.4 \div [1.5 \div \{0.6 \div 0.1\}]$$

$$= 0.4 \div [1.5 \div 6]$$

$$= 0.4 \div \frac{1}{4}$$

$$= \frac{8}{5} = 1.6$$