Chapter- 12

Simplification - BODMAS Rule

WORKSHEET

1. **Fill in the blanks :**
   a. Sums involving Bar bracket are to be solved first.
   b. These ( ) brackets are called open or common bracket.
   c. In B O D M A S "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 ÷ 4 + 8 − 3 x 2**

   Ans. 19+8-3×2
   ~~19+8~~ -6
   = 27-6
   = 21

   b. **54 ÷ 9 x 6 − 4 + 3 + 8**

   Ans. 6×6-4+8
   = 36-4+8
   = 36-12
   = 24

3. **Simplify the following**
   a. **12 − [20 ÷ { 8 − 2 (9 − 5 -2)}]**

   Ans. 12-[20÷{8-2×2}]
   =12-[20÷4]
   =12-5
   =7

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

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

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

$= 25 - \frac{1}{2} \times 8^{4}$

$= 25 - 4$

$= 21$

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

Ans. $0.4 \div [1.5 \div \{0.6 \div (0.3 - 0.2)\}$

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

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

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

$= \frac{4}{10_{5}} \times \frac{4^{2}}{1} = \frac{8}{5} = 1.6$

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