Chapter- 12

Simplification - BODMAS Rule

WORKSHEET

1. **Fill in the blanks :**
   a. Sums involving bare bracket are to be solved first.
   b. These ( ) brackets are called parentheses 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, Substraction is the last operation to be solved.
2. **Simplify :**
   a. **76 ÷ 4 + 8 – 3 x 2**

Ans. 19+8-3X2
=27-3X2
=24X2=48

   b. **54 ÷ 9 x 6 – 4 + 3 + 8**

Ans. 6X6-4+3+8
=36-4+3+8
=32+3+8
=35+8
=43

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

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

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

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

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

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

$=25-\frac{1}{2}\{9-1\}=25-\frac{1}{2}\times 8^{4}$

$=25-4$

$=21$

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

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

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

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

$=0.4\div\left[\frac{1\cancel{5}^{3}}{\cancel{10}_{2}}\times\frac{1}{6}\right]$

$=0.4\div\frac{3}{12}=\frac{4}{10}\times\frac{\cancel{12}^{4}}{\cancel{3}}=\frac{16}{10}=1.6$

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