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 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, DMAS is the last operation to be solved.
2. **Simplify :**
   a. **76 ÷ 4 + 8 – 3 x 2**

Ans. 76 ÷ 4 + 8 – 3 x 2
= 19 + 8 – 3 x 2
= 19 + 8 – 6
= 27 – 6
= 21

   b. **54 ÷ 9 x 6 – 4 + 3 + 8**

Ans. 54 ÷ 9 x 6 – 4 + 3 + 8
= 6 x 6 – 4 + 3 + 8
= 36 – 4 + 3 + 8
= 36 – 15
= 21

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

Ans. 12 – [20 ÷ { 8 – 2 (9 – 5 – 2)}]
= 12 – [20 ÷ { 8 – 2 – 2 }]
= 12 – [20 ÷ 4]
= 12 – 5
= 7

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

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

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

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

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

$=100$

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

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

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

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

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

$=0.4\div 0.25$

$=1.6$

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