

29-06-2021
TUESDAY
C.W

PLAYING WITH BRACKETS

Brackets:

1) --- \rightarrow Bar bracket, Vinculum

2) $()$ \rightarrow Small bracket, Round bracket, Parenthesis, Moon bracket

3) $\{ \}$ \rightarrow Curly bracket

4) $[]$ \rightarrow Square bracket

B = Brackets
O = Of
D = Division
M = Multiplication
A = Addition
S = Subtraction

EXERCISE 9 'A'

1. $19 - (1 + 5) - 3$ 2. $30 \times 6 \div (5 - 2)$

$$\begin{aligned}
 &= 19 - 6 - 3 & &= 30 \times 6 \div 3 \\
 &= 13 - 3 & &= 30 \times 2 \\
 &= 10 & &= 60
 \end{aligned}$$

3. $28 - (3 \times 4) \div 6$

$$\begin{aligned}
 &= 28 - 24 \div 6 \\
 &= 28 - 4 \\
 &= 24
 \end{aligned}$$

4. $9 - [(4 - 3) + 2 \times 5]$

$$\begin{aligned}
 &= 9 - [1 + 2 \times 5] \\
 &= 9 - [1 + 10] \\
 &= 9 - 11 \\
 &= -2
 \end{aligned}$$

$$5. [18 - (15 \div 5) + 6]$$

$$= [18 - 3 + 6]$$

$$= 18 - 3 + 6$$

$$= 21$$

$$6. [(4 \times 2) - (4 \div 2)] + 8$$

$$= [8 - 2] + 8$$

$$= 6 + 8$$

$$= 14$$

$$7. 48 + 96 \div 24 - 6 \times 18$$

$$= 48 + 4 - 6 \times 18$$

$$= 48 + 4 - 108$$

$$= 52 - 108$$

$$= -56$$

$$8. 22 - [3 - \{8 - (4 + 6)\}]$$

$$= 22 - [3 - \{8 - 10\}]$$

$$= 22 - [3 - \{-2\}]$$

$$= 22 - [3 + 2]$$

$$= 22 - 5$$

$$= 17$$

$$9. 34 - [29 - \{30 + 66 \div (24 - 28 - 26)\}]$$

$$= 34 - [29 - \{30 + 66 \div (24 - 2)\}]$$

$$= 34 - [29 - \{30 + 66 \div 22\}]$$

$$= 34 - [29 - \{30 + 3\}]$$

$$= 34 - [29 - 33]$$

$$= 34 - [-4]$$

$$= 34 + 4$$

$$= 38$$

$$10. 60 - \{16 \div (4 \times 6 - 8)\}$$

$$= 60 - \{16 \div (24 - 8)\}$$

$$= 60 - \{16 \div 16\}$$

$$= 60 - 1$$

$$= 59$$

EXERCISE P(8)

$$11. 25 - [12 - \{5 + 18 \div (4 - 5 - 3)\}]$$

$$= 25 - [12 - \{5 + 18 \div (4 - 2)\}]$$

$$= 25 - [12 - \{5 + 18 \div 2\}]$$

$$= 25 - [12 - \{5 + 9\}]$$

$$= 25 - [12 - 14]$$

$$= 25 - 1$$

$$= 24$$

$$12. 15 - [16 - \{12 + 21 \div (9 - 2)\}]$$

$$= 15 - [16 - \{12 + 21 \div 7\}]$$

$$= 15 - [16 - \{12 + 3\}]$$

$$= 15 - [16 - 15]$$

$$= 15 - 1$$

$$= 14$$