

EXERCISE 9(A)**(Using BODMOS)**

1. $19 - (1 + 5) - 3$

Solution:

Given

$$19 - (1 + 5) - 3$$

On further calculation, we get

$$= 19 - 6 - 3$$

$$= 19 - 9$$

$$= 10$$

2. $30 \times 6 \div (5 - 2)$

Solution:

Given

$$30 \times 6 \div (5 - 2)$$

On further calculation, we get

$$= 30 \times 6 \div 3$$

$$= 30 \times 2$$

$$= 60$$

3. $28 - (3 \times 8) \div 6$

Solution:

Given

$$28 - (3 \times 8) \div 6$$

Calculating further, we get =

$$28 - 24 \div 6$$

$$= 28 - 4$$

$$= 24$$

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

Solution:

Given

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

We get

$$= 9 - [1 + 10]$$

$$= 9 - 11$$

$$= -2$$

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

Solution:

Given

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

On further calculation, we get

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

$$= 18 + 3$$

$$= 21$$

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

Solution:

Given

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

On further calculation, we get

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

$$= 6 + 8$$

$$= 14$$

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

Solution:

Given

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

We get

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

$$= 48 + 4 - 108$$

$$= 52 - 108$$

$$= -56$$

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

Solution:

Given

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

On calculating further, we get

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

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

$$= 22 - 5$$

$$= 17$$

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

Solution:

Given

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

On further calculation, we get

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

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

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

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

$$= 34 - [-4]$$

$$= 34 + 4$$

$$= 38$$

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

Solution:

Given

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

On further calculation, we get

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

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

$$= 60 - 1$$

$$= 59$$

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

Solution

Given

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

By calculating further, we get =

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

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

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

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

$$= 25 - [-2]$$

$$= 25 + 2$$

$$= 27$$

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

Solution:

Given

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

On further calculation, we get

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

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

$$\begin{aligned} &= 15 - [16 - 15] \\ &= 15 - 1 \\ &= 14 \end{aligned}$$

