29/06/21

Playing with numbers
Ch-9

Suplification of Brackets

Kind of brackets

i) Bar or vinculum —
ii) Smallest brackets ( )
iii) Curly Brackets { }
iv) Square brackets [ ]

Order of

The order of Simplifying these brackets is:→

1) Bar — 2. Smallest Brackets ( ).
3. Curly brackets { }
4. Square Brackets [ ]

Exercise - 9(A)

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

A:→ $19-6-3$
$= 19-9$
$= 10$

[BODMAS]

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

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

A: $30 \times 6 \div 3$

$= 30 \times 2$

$= 60$

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

A: $28 - 24 \div 6$

$= 28 - 4$

$= 24$

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

A: $9 - [1 + 10] = 9 - 11 = -2$

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

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

$= [18 - 3 + 6]$

$= 18 + 3 = 21$

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

A: ~~$[(4 \times 2) -$~~

$= [8 - 2] + 8 = 6 + 8 = 14$

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

A: $48 + 4 - 6 \times 18$

$= 48 + 4 - 108$

$= 52 - 108$

$= 56$

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

A: $22-[3-\{8-10\}]$

$= 22-[3-2]$

$= 22-1$

$= 21$

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

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

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

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

$= 34-[29-33]$

$= 34-4$

$= 30$

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

A: On the further calculalculation, we get

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

$= 60-\{16\div 16\} = 60-1$

$= 59$

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

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

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

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

$= 25-[12-14]$

$= 25-(-2) = 25+2 = 27$

12. $15-[16-\{10+21\div(9-2)\}]$

$= 15-[16-\{10+21\div 7\}]$

$= 15-[16-\{10+3\}]$

$= 15-[16-15]$

$= 15-1 = 14$