

Playing with Numbers

EXERCISE 9 (A)

(Using BODMAS)

Question 1.

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

Solution:

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

$$= 19 - 6 - 3$$

$$= 19 - 9 = 10$$

Question 2.

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

Solution:

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

$$= 30 \times 6 - 3$$

$$= 30 \times 2 = 60$$

Question 3.

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

Solution:

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

$$= 28 - 24 - 6$$

$$= 28 - 4 = 24$$

Question 4.

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

Solution:

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

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

$$= 9 - 11 = -2$$

Question 5.

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

Solution:

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

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

$$= [18 + 3] = 21$$

Question 6.

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

Solution:

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

$$= 8 - 2 + 8$$

$$= 16 - 2 = 14$$

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Question 7.

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

Solution:

$$\begin{aligned} &48 + 96 - 24 - 6 \times 18 \\ &= 48 + 4 - 6 \times 18 \\ &= 48 + 4 - 108 \\ &= 52 - 108 = -56 \end{aligned}$$

Question 8.

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

Solution:

$$\begin{aligned} &22 - [3 - \{8 - (4 + 6)\}] \\ &= 22 - [3 - \{8 - 10\}] \\ &= 22 - [3 + 2] \\ &= 22 - 5 = 17 \end{aligned}$$

Question 9.

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

Solution:

$$\begin{aligned} &= 34 - [29 - \{30 + 66 \div (24 - 2)\}] \\ &= 34 - [29 - \{30 + 66 \div 22\}] \\ &= 34 - [29 - \{30 + 3\}] \\ &= 34 - [29 - 33] \\ &= 34 - [-4] \\ &= 34 + 4 = 38 \end{aligned}$$

Question 10.

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

Solution:

$$\begin{aligned} &60 - \{16 + (4 \times 6 - 8)\} \\ &= 60 - \{16 + (24 - 8)\} \\ &= 60 - \{16 + 16\} \\ &= 60 - 32 = 28 \end{aligned}$$

Question 11.

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

Solution:

$$\begin{aligned} &25 - [12 - \{5 + 18 \div (4 - 5 - 3)\}] \\ &= 25 - [12 - \{5 + 18 \div (4 - 2)\}] \\ &= 25 - [12 - \{5 + 18 \div 2\}] \\ &= 25 - [12 - \{5 + 9\}] \\ &= 25 - [12 - 14] \end{aligned}$$

$$= 25 - [-2]$$
$$= 25 + 2 = 27$$

Question 12.

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

Solution:

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

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

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

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

$$= 15 - 1 = 14$$



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