



Integers Ex 1.4 Q5

**Answer :**

On applying the BODMAS rule, we get:

$$\begin{aligned} & 36 - [18 - \{14 - (15 - 4 \div 2 \times 2)\}] \\ &= 36 - [18 - \{14 - (15 - 2 \times 2)\}] && \text{(On performing division)} \\ &= 36 - [18 - \{14 - (15 - 4)\}] && \text{(On performing multiplication)} \\ &= 36 - [18 - \{14 - 11\}] && \text{(On simplifying parentheses)} \\ &= 36 - [18 - 3] && \text{(On simplifying braces)} \\ &= 36 - 15 \\ &= 21 \end{aligned}$$

Integers Ex 1.4 Q6

**Answer :**

On applying the BODMAS rule, we get:

$$\begin{aligned} & 45 - [38 - \{60 \div 3 - (6 - 9 \div 3) \div 3\}] \\ &= 45 - [38 - \{60 \div 3 - (6 - 3) \div 3\}] && \text{(On performing division)} \\ &= 45 - [38 - \{60 \div 3 - 3 \div 3\}] && \text{(On simplifying parentheses)} \\ &= 45 - [38 - \{60 \div 3 - 1\}] && \text{(On performing division)} \\ &= 45 - [38 - \{20 - 1\}] && \text{(On performing division)} \\ &= 45 - [38 - 19] && \text{(On performing subtraction)} \\ &= 45 - 19 \\ &= 26 \end{aligned}$$

Integers Ex 1.4 Q7

**Answer :**

On applying the BODMAS rule, we get:

$$\begin{aligned} & 23 - [23 - \{23 - (23 - \overline{23 - 23})\}] \\ &= 23 - [23 - \{23 - (23 - 0)\}] && \text{(On simplifying vinculum)} \\ &= 23 - [23 - \{23 - 23\}] && \text{(On simplifying parentheses)} \\ &= 23 - [23 - 0] && \text{(On simplifying braces)} \\ &= 23 - 23 = 0 \end{aligned}$$

Integers Ex 1.4 Q8

**Answer :**

On applying the BODMAS rule, we get:

$$\begin{aligned} & 2550 - [510 - \{270 - (90 - \overline{80 + 70})\}] \\ &= 2550 - [510 - \{270 - (90 - 150)\}] \quad (\text{On simplifying vinculum}) \\ &= 2550 - [510 - \{270 - (-60)\}] \quad (\text{On simplifying parentheses}) \\ &= 2550 - [510 - 330] \quad (\text{On simplifying braces}) \\ &= 2550 - 180 \\ &= 2370 \end{aligned}$$

Integers Ex 1.4 Q9

**Answer :**

On applying the BODMAS rule, we get:

$$\begin{aligned} & 4 + \frac{1}{5} \{[-10 \times (25 - \overline{13 - 3})] \div (-5)\} \\ &= 4 + \frac{1}{5} \{[-10 \times (25 - 10)] \div (-5)\} \quad (\text{On simplifying vinculum}) \\ &= 4 + \frac{1}{5} \{[-10 \times 15] \div (-5)\} \quad (\text{On simplifying parentheses}) \\ &= 4 + \frac{1}{5} [30] \quad (\text{On simplifying braces}) \\ &= 4 + 6 \\ &= 10 \end{aligned}$$

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