Integers Ex 1.4 Q5

**Answer :**

On applying the BODMAS rule, we get:

$36 - [18 - \{14 - (15 - 4 \div 2 \times 2)\}]$

$= 36 - [18 - \{14 - (15 - 2 \times 2)\}]$ (On performing division)

$= 36 - [18 - \{14 - (15 - 4)\}]$ (On performing multiplication)

$= 36 - [18 - \{14 - 11\}]$ (On simplifying parentheses)

$= 36 - [18 - 3]$ (On simplifying braces)

$= 36 - 15$

$= 21$

Integers Ex 1.4 Q6

**Answer :**

On applying the BODMAS rule, we get:

$45 - [38 - \{60 \div 3 - (6 - 9 \div 3) \div 3\}]$

$= 45 - [38 - \{60 \div 3 - (6 - 3) \div 3\}]$ (On performing division)

$= 45 - [38 - \{60 \div 3 - 3 \div 3\}]$ (On simplifying parentheses)

$= 45 - [38 - \{60 \div 3 - 1\}]$ (On performing division)

$= 45 - [38 - \{20 - 1\}]$ (On performing division)

$= 45 - [38 - 19]$ (On performing subtraction)

$= 45 - 19$

$= 26$

Integers Ex 1.4 Q7

**Answer :**

On applying the BODMAS rule, we get:

$23 - [23 - \{23 - (23 - \overline{23 - 23})\}]$

$= 23 - [23 - \{23 - (23 - 0\}]$ (On simplifying vinculum)

$= 23 - [23 - \{23 - 23\}]$ (On simplifying parentheses)

$= 23 - [23 - 0]$ (On simplifying braces)

$= 23 - 23 = 0$

Integers Ex 1.4 Q8

**Answer :**

On applying the BODMAS rule, we get:

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

Integers Ex 1.4 Q9

**Answer :**

On applying the BODMAS rule, we get:

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

********** END **********