



Exercise 4D

Q1

Answer :

$$\begin{aligned} \text{(i) } 15 \text{ by } 9 \\ &= 15 \times 9 \\ &= 135 \end{aligned}$$

$$\begin{aligned} \text{(ii) } 18 \text{ by } -7 \\ &= -(18 \times 7) \\ &= -126 \end{aligned}$$

$$\begin{aligned} \text{(iii) } 29 \text{ by } -11 \\ &= -(29 \times 11) \\ &= -319 \end{aligned}$$

$$\begin{aligned} & \text{(iv) } -18 \text{ by } 13 \\ &= -(18 \times 13) \\ &= -234 \end{aligned}$$

$$\begin{aligned} & \text{(v) } -56 \text{ by } 16 \\ &= -(56 \times 16) \\ &= -896 \end{aligned}$$

$$\begin{aligned} & \text{(vi) } 32 \text{ by } -21 \\ &= -(32 \times 21) \\ &= -672 \end{aligned}$$

$$\begin{aligned} & \text{(vii) } -57 \text{ by } 0 \\ &= -(57 \times 0) \\ &= 0 \end{aligned}$$

$$\text{(viii) } 0 \text{ by } -31$$

$$= -(0 \times 31)$$

$$= 0$$

$$\text{(ix) } -12 \text{ by } -9$$

$$= (-12) \times (-9)$$

$$= 108$$

$$\text{(x) } (-746) \text{ by } (-8)$$

$$= (-746) \times (-8)$$

$$= 5968$$

$$\text{(xi) } 118 \text{ by } -7$$

$$= 118 \times (-7)$$

$$= -826$$

$$\text{(xii) } -238 \text{ by } -143$$

$$= (-238) \times (-143)$$

$$= 34034$$

Q2

Answer :

$$\begin{aligned} \text{(i)} \quad & (-2) \times 3 \times (-4) \\ &= [(-2) \times 3] \times (-4) \\ &= (-6) \times (-4) \\ &= 24 \end{aligned}$$

$$\begin{aligned} \text{(ii)} \quad & 2 \times (-5) \times (-6) \\ &= [2 \times (-5)] \times (-6) \\ &= (-10) \times (-6) \\ &= 60 \end{aligned}$$

$$\begin{aligned} \text{(iii)} \quad & (-8) \times 3 \times 5 \\ &= [(-8) \times 3] \times 5 \\ &= (-24) \times 5 \\ &= -120 \end{aligned}$$

$$\begin{aligned} \text{(iv)} \quad & 8 \times 7 \times (-10) \\ &= [8 \times 7] \times (-10) \end{aligned}$$

$$= 56 \times (-10)$$

$$= -560$$

$$(v) (-3) \times (-7) \times (-6)$$

$$= [(-3) \times (-7)] \times (-6)$$

$$= 21 \times (-6)$$

$$= -126$$

$$(vi) (-8) \times (-3) \times (-9)$$

$$= [(-8) \times (-3)] \times (-9)$$

$$= 24 \times (-9)$$

$$= -216$$

Q3

Answer :

$$(i) 18 \times (-27) \times 30$$

$$= (-27) \times [18 \times 30]$$

$$= (-27) \times 540$$

$$= -14580$$

$$(ii) (-8) \times (-63) \times 9$$

$$= [(-8) \times (-63)] \times 9$$

$$= 504 \times 9$$

$$= 4536$$

$$(iii) (-17) \times (-23) \times 41$$

$$\begin{aligned}
 &= [(-17) \times (-23)] \times 41 \\
 &= 391 \times 41 \\
 &= 16031
 \end{aligned}$$

$$\begin{aligned}
 \text{(iv)} \quad &(-51) \times (-47) \times (-19) \\
 &= [(-51) \times (-47)] \times (-19) \\
 &= 2397 \times (-19) \\
 &= -45543
 \end{aligned}$$

Q4

Answer :

(i)

L.H.S.

$$\begin{aligned}
 &= 18 \times [9 + (-7)] \\
 &= 18 \times [9 - 7] \\
 &= 18 \times 2 \\
 &= 36
 \end{aligned}$$

R.H.S.

$$\begin{aligned}
 &= 18 \times 9 + 18 \times (-7) \\
 &= 162 - (18 \times 7) \\
 &= 162 - 126 \\
 &= 36
 \end{aligned}$$

$\therefore \text{L.H.S} = \text{R.H.S}$

Hence, verified.

$$\text{(ii)} \quad (-13) \times [(-6) + (-19)] = (-13) \times (-6) + (-13) \times (-19)$$

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