Q1

Answer :

(i) 15 by 9

$= 15 \times 9$

$= 135$

(ii) 18 by -7

$= -(18 \times 7)$

$= -126$

(iii) 29 by -11

$= -(29 \times 11)$

$= -319$

(iv) −18 by 13

$= -(18 \times 13)$

$= -234$

(v) −56 by 16

$= -(56 \times 16)$

$= -896$

(vi) 32 by −21

$= -(32 \times 21)$

$= -672$

(vii) −57 by 0

$= -(57 \times 0)$

$= 0$

(viii) 0 by −31

$= -(0 \times 31)$

$= 0$

(ix) −12 by −9

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

$= 108$

(x) (−746) by (−8)

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

$= 5968$

(xi) 118 by −7

$= 118 \times (-7)$

$= -826$

(xii) −238 by −143

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

$= 34034$

Q2

Answer:

(i) $(-2) \times 3 \times (-4)$

$= [(-2) \times 3] \times (-4)$

$= (-6) \times (-4)$

$= 24$

(ii) $2 \times (-5) \times (-6)$

$= [2 \times (-5)] \times (-6)$

$= (-10) \times (-6)$

$= 60$

(iii) $(-8) \times 3 \times 5$

$= [(-8) \times 3] \times 5$

$= (-24) \times 5$

$= -120$

(iv) $8 \times 7 \times (-10)$

$= [8 \times 7] \times (-10)$

$$= 56 \times (-10)$$
$$= -560$$

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

$$= [(-17) \times (-23)] \times 41$$
$$= 391 \times 41$$
$$= 16031$$

(iv) $(-51) \times (-47) \times (-19)$
$$= [(-51) \times (-47)] \times (-19)$$
$$= 2397 \times (-19)$$
$$= -45543$$

Q4

Answer:

(i)

L.H.S.

$$= 18 \times [9 + (-7)]$$
$$= 18 \times [9 - 7]$$
$$= 18 \times 2$$
$$= 36$$

R.H.S.

$$= 18 \times 9 + 18 \times (-7)$$
$$= 162 - (18 \times 7)$$
$$= 162 - 126$$
$$= 36$$

$\therefore$ L.H.S = R.H.S

Hence, verified.

(ii) $(-13) \times [(-6) + (-19)] = (-13) \times (-6) + (-13) \times (-19)$

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

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