Exercise 3D

Q1

Answer :

(i) $246 \times 1 = 246$

(ii) $1369 \times 0 = 0$

(iii) $593 \times 188 = 188 \times 593$

(iv) $286 \times 753 = 753 \times 286$

(v) $38 \times (91 \times 37) = 91 \times (38 \times 37)$

(vi) $13 \times 100 \times 1000 = 1300000$

(vii) $59 \times 66 + 59 \times 34 = 59 \times (66 + 34)$

(viii) $68 \times 95 = 68 \times 100 - 68 \times 5$

Q2

Answer :

(i) Commutative law in multiplication

(ii) Closure property

(iii) Associativity of multiplication

(iv) Multiplicative identity

(v) Property of zero

(vi) Distributive law of multiplication over addition

(vii) Distributive law of multiplication over subtraction

Q3

Answer :

(i) 647 × 13 + 647 × 7
= 647 × (13 + 7)
= 647 × 20
= 12940 (By using distributive property)

(ii) 8759 × 94 + 8759 × 6
= 8759 × (94 + 6)
= 8759 × 100
= 875900 (By using distributive property)

(iii) 7459 × 999 + 7459
= 7459× (999 + 1)
= 7459 × 1000
= 7459000 (By using distributive property)

(iv) 9870 × 561 − 9870 × 461
= 9870 × (561 − 461)
= 9870 × 100
= 987000 (By using distributive property)

(v) 569 × 17 + 569 × 13 + 569 × 70
= 569 × (17+ 13+ 70)
= 569 × 100
= 56900 (By using distributive property)

(vi) 16825 × 16825 − 16825 × 6825
= 16825 × (16825 − 6825)
= 16825 × 10000
= 168250000 (By using distributive property)

Q4

Answer :

(i) 2 × 1658 × 50
= (2 × 50) × 1658
= 100 × 1658
= 165800

(ii) $4 \times 927 \times 25$

$= (4 \times 25) \times 927$

$= 100 \times 927$

$= 92700$

(iii) $625 \times 20 \times 8 \times 50$

$= (20 \times 50) \times 8 \times 625$

$= 1000 \times 8 \times 625$

$= 8000 \times 625$

$= 5000000$

(iv) $574 \times 625 \times 16$

$= 574 \times (625 \times 16)$

$= 574 \times 10000$

$= 5740000$

(v) $250 \times 60 \times 50 \times 8$

$= (250 \times 8) \times (60 \times 50)$

$= 2000 \times 3000$

$= 6000000$

(vi) $8 \times 125 \times 40 \times 25$

$= (8 \times 125) \times (40 \times 25)$

$= 1000 \times 1000$

$= 1000000$

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