

Exercise 3D

Q1

Answer:

- (i) 246 × 1 = 246
- (ii) $1369 \times 0 = 0$
- (iii) 593 × 188 = 188 × 593
- (iv) $286 \times 753 = 753 \times 286$
- (v) $38 \times (91 \times 37) = 91 \times (38 \times 37)$
- (vi) 13 × 100 × 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:

- $= 647 \times (13 + 7)$ $= 647 \times 20$ = 12940(By using distributive property)
- (ii) 8759 × 94 + 8759 × 6

(i) $647 \times 13 + 647 \times 7$

- $= 8759 \times (94 + 6)$
- = 8759 × 100
- = 875900 (By using distributive property)
- (iii) 7459 × 999 + 7459
- $= 7459 \times (999 + 1)$
- = 7459 × 1000
- = 7459000
- (By using distributive property)
- (iv) 9870 × 561 9870 × 461
- $= 9870 \times (561 461)$
- = 9870 × 100
- = 987000
- (By using distributive property)
- (v) 569 x 17 + 569 x 13 + 569 x 70
 - $= 569 \times (17 + 13 + 70)$
- = 569 × 100
- = 56900
- (By using distributive property)
- (vi) 16825 × 16825 16825 × 6825
- = 16825 × (16825 6825)
- = 16825 × 10000
- = 168250000 (By using distributive property)

04

Answer:

- (i) 2 × 1658 × 50
- $= (2 \times 50) \times 1658$
- = 100 x 1658
- = 165800

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

$$= 100 \times 927$$

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

$$= 1000 \times 8 \times 625$$

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

$$= 574 \times 10000$$

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

(vi) $8 \times 125 \times 40 \times 25$ = $(8 \times 125) \times (40 \times 25)$ = 1000×1000

= 1000000

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