Exercise 3B

Q1

Answer :

(i) 458 + 639 = 639 + 458

(ii) 864 + 2006 = 2006 + 864

(iii) 1946 + 984 = 984 + 1946

(iv) 8063 + 0 = 8063

(v) 53501 + (574 + 799) = 574 + (53501 + 799)

Q2

Answer :

(i) 16509 + 114 = 16623

By reversing the order of the addends, we get:

114 + 16509 = 16623

∴ 16509 + 114 = 114 + 16509

(ii) 2359 + 548 = 2907

By reversing the order of the addends, we get:

548 + 2359 = 2907

∴ 2359 + 548 = 548 + 2359

(iii) 19753 + 2867 = 22620

By reversing the order of the addends, we get:

2867 + 19753 = 22620

∴ 19753 + 2867 = 2867 + 19753

Q3

Answer :

We have:

$(1546 + 498) + 3589 = 2044 + 3589 = 5633$

Also, $1546 + (498 + 3589) = 1546 + 4087 = 5633$

Yes, the two sums are equal.
The associative property of addition is satisfied.

Q4

Answer :

(i) 953 + 707 + 647
953 + (707 + 647) (Using associative property of addition)
= 953 + 1354
= 2307

(ii) 1983 + 647 + 217 + 353
(1983 + 647) + (217 +353) (Using associative property of addition)
= 2630 + 570
= 3200

(iii) 15409 + 278 + 691 + 422
(15409 + 278) + (691 + 422) (Using associative property of addition)
= 15687 + 1113
= 16800

(iv) 3259 + 10001 + 2641 + 9999
(3259 + 10001) + (2641 + 9999) (Using associative property of addition)
= 13260 + 12640
= 25900

(v)1 + 2 + 3 + 4 + 96 + 97 + 98 + 99
(1 + 2 + 3 + 4) + (96 + 97 + 98 + 99) (Using associative property of addition)
= (10) + (390)
= 400

(vi) 2 + 3 + 4 + 5 + 45 + 46 + 47 + 48
(2 + 3 + 4 + 5) + (45 + 46 + 47 + 48) (Using associative property of addition)
= 14 + 186
= 200

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