

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:

: 16509 + 114 = 114 + 16509

(ii) 2359 + 548 = 2907

By reversing the order of the addends, we get:

: 2359 + 548 = 548 + 2359

(iii) 19753 + 2867 = 22620

By reversing the order of the addends, we get:

: 19753 + 2867 = 2867 + 19753

Q3

Answer:

We have:

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

Yes, the two sums are equal.

The associative property of addition is satisfied.

Q4

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Answer:
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(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
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********* END *******