Operations on Whole Numbers Ex 4.3 Q5

Answer :

(i) 493 × 8 + 493 × 2

= 493 × (8 + 2)

(Using distributivity of multiplication over addition of whole numbers)

= 493 × 10 = 4930

(ii) 24579 × 93 + 7 × 24579

= 24579 × (93 + 7)

(Using distributivity of multiplication over addition of whole numbers)

= 24579 × 100 = 2457900

(iii) 1568 × 184 − 1568 × 84

= 1568 × (184 − 84)

(Using distributivity of multiplication over subtraction of whole numbers)

= 1568 × 100 = 156800

(iv) 15625 × 15625 − 15625 × 5625

= 15625 × (15625 − 5625)

(Using distributivity of multiplication over subtraction of whole numbers)

= 15625 × 10000 = 156250000

Operations on Whole Numbers Ex 4.3 Q6

Answer :

(i) The largest four−digit number = 9999

The smallest three−digit number = 100

∴ Product of the smallest three−digit number and the largest four−digit number = 9999 × 100 = 999900

(ii) The largest five-digit number = 9999

The largest number of three digits = 999

∴ Product of the largest three-digit number and the largest five−digit number = 9999 × 999

= 9999 × (1000 − 1)

= (9999 × 1000) − (9999 × 1)

= 9999000 − 9999 = 9989001

Operations on Whole Numbers Ex 4.3 Q7

Answer :

(i) (500 + 7) (300 − 1) = 507 × 299 = 299 × 507 (Commutativity)

(ii) 888 + 777 + 555 = 111 (8 + 7 + 5) = 111 × 20 (Distributivity)

(iii) 75 × 425 = (70 + 5) × 425 = (70 + 5) (340 + 85)

(iv) 89 × (100 − 2) = 89 × 98 = 98 × 89 = 98 × (100 − 11) (Commutativity)

(v) (15 + 5) (15 − 5) = 20 × 10 = 200 = 225 − 25

(vi) 9 × (10000 + 974) = 98766

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