



#### Operations on Whole Numbers Ex 4.3 Q5

**Answer :**

$$(i) \ 493 \times 8 + 493 \times 2$$

$$= 493 \times (8 + 2)$$

(Using distributivity of multiplication over addition of whole numbers)

$$= 493 \times 10 = 4930$$

$$(ii) \ 24579 \times 93 + 7 \times 24579$$

$$= 24579 \times (93 + 7)$$

(Using distributivity of multiplication over addition of whole numbers)

$$= 24579 \times 100 = 2457900$$

$$(iii) \ 1568 \times 184 - 1568 \times 84$$

$$= 1568 \times (184 - 84)$$

(Using distributivity of multiplication over subtraction of whole numbers)

$$= 1568 \times 100 = 156800$$

$$(iv) \ 15625 \times 15625 - 15625 \times 5625$$

$$= 15625 \times (15625 - 5625)$$

(Using distributivity of multiplication over subtraction of whole numbers)

$$= 15625 \times 10000 = 156250000$$

#### Operations on Whole Numbers Ex 4.3 Q6

**Answer :**

(i) The largest four-digit number = 9999

The smallest three-digit number = 100

$\therefore$  Product of the smallest three-digit number and the largest four-digit number =  $9999 \times 100 = 999900$

(ii) The largest five-digit number = 9999

The largest number of three digits = 999

$\therefore$  Product of the largest three-digit number and the largest five-digit number =  $9999 \times 999$

$$= 9999 \times (1000 - 1)$$

$$= (9999 \times 1000) - (9999 \times 1)$$

1)

$$= 9999000 - 9999 =$$

9989001

#### Operations on Whole Numbers Ex 4.3 Q7

**Answer :**

(i)  $(500 + 7) (300 - 1) = 507 \times 299 = 299 \times \underline{507}$  (Commutativity)

(ii)  $888 + 777 + 555 = 111 (8 + 7 + 5) = 111 \times \underline{20}$  (Distributivity)

(iii)  $75 \times 425 = (70 + 5) \times 425 = (70 + 5) (\underline{340} + 85)$

(iv)  $89 \times (100 - 2) = 89 \times 98 = 98 \times 89 = 98 \times (100 - \underline{11})$  (Commutativity)

(v)  $(15 + 5) (15 - 5) = 20 \times 10 = 200 = 225 - \underline{25}$

(vi)  $9 \times (10000 + \underline{974}) = 98766$

\*\*\*\*\* END \*\*\*\*\*