

Sub:Maths class-6 Topic- properties of Multiplication of Whole numbers .

Do all questions of Ex-2.4 ,one of each type is done for you.

Hence, the numbers are 25 and 47.

EXERCISE 2.4

Use Cordova Smart Class Software on the smart board in class to do Exercise.

- Find the product of the following by suitable rearrangement :
(i) $4 \times 694 \times 125 \times 2$ (ii) $5 \times 3996 \times 20 \times 2$ (iii) $2 \times 9897 \times 5$ (iv) $725 \times 8 \times 50 \times 20$
- Find the value of each of the following :
(i) $(7909 \times 98) + (7909 \times 2)$ (ii) $(43987 \times 45) + (43987 \times 55)$
(iii) $(1297 \times 38) + (1297 \times 62)$ (iv) $(7198 \times 197) - (97 \times 7198)$
- Find each of the following products using properties :
(i) 7909×991 (ii) 4980×507 (iii) 815×754
(iv) 3023×612 (v) 356×106
- Find the product of the largest 3-digit number and the sum of 2456 and 344.

Ex. 2.4

5. In a factory, 3265 toys are made in a day. How many toys will be made in a month of 25 working days?
6. A dealer purchased 125 computer sets. If the cost of each is ₹ 21,346, determine the cost of all computer sets.
7. Mohit buys 40 chairs and 40 tables. If a chair costs ₹ 375 and a table costs ₹ 125, find the total money spent on chairs and tables.
8. There are 150 pages in a book. Determine the total number of pages in 1652 such books.
9. Subtract the product of 63538 and 35 from the greatest number formed by using the digits 0, 1, 2, 3, 4, 5, 6 each only once.
10. The product of two 2-digit numbers is 1998. If the product of their units digits is 28 and that of tens digits is 15, find the numbers.

CLASS-6

CHAPTER-2

WHOLE NUMBERS

Exercise - 2.4

(Properties of multiplication)

Find the product:-

1. (i) $4 \times 694 \times 125 \times 2$

$$\begin{aligned} &= 694 \times 4 \times 125 \times 2 \quad (a \times b = b \times a) \\ &= 694 \times (4 \times 125 \times 2) \quad (4 \times 694 = 694 \times 4) \\ &= 694 \times 1000 \\ &= 694000 \end{aligned}$$

2. Find the value of each of the following:

(i) $(7909 \times 98) + (7909 \times 2)$

$$= 7909 \times (98 + 2)$$

$$= 7909 \times 100$$

$$= 790900$$

$$(a \times b + a \times c = a(b+c))$$

Distributive property

3. Find each of the foll. products:-

(i) 7909×991

$$= 7909 \times (1000 - 9)$$

$$= 7909 \times 1000 - 7909 \times 9$$

$$= 7909000 - 7909 \times 9$$

$$= 7909000 - 71181$$

$$= 7837819$$

$$\begin{array}{r} 7909000 \\ - 71181 \\ \hline 7837819 \end{array}$$

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Ans. 4. Largest 3-digit number

$$= 999$$

Sum of 2456 and 344

$$= 2456 + 344$$

$$= 2800$$

$$\text{Product} = 999 \times 2800 = (1000 - 1) \times 2800 = 2797200 - \text{Ans.}$$

(Ans. 9) greatest number formed
by digits 9, 2, 3, 4, 5, 6

$$= 6543210$$

product of 63538 and 35

$$= 63538 \times 35$$

$$= 63538 \times (30 + 5)$$

$$= 63538 \times 30 + 63538 \times 5 \text{ (Distributive)}$$

$$= 1906140 + 317690 \text{ (property)}$$

$$= 2223830$$

Difference of 6543210 and
2223830

$$= 4319380$$

Ans.

$$6543210$$

$$- 2223830$$

$$\hline 4319380$$

(Ans. 4) Remaining part of Q.4.

$$999 \times 2800$$

$$= (1000 - 1) \times 2800$$

$$= 2800000 - 2800$$

$$= 2797200 \text{ Ans.}$$