ODM EDUCATIONAL GROUP
Changing your Tomorrow

PLAYING WITH NUMBERS

PERIOD 1

SUBJECT : MATHEMATICS
CHAPTER NUMBER: 5
CHAPTER NAME : PLAYING WITH NUMBERS

Website: www.odmegroup.org
Email: info@odmps.org
Toll Free: 1800 120 2316
Sishu Vihar, Infocity Road, Patia, Bhubaneswar- 751024

Learning outcome

Students will be able to know about generalized form of numbers (two - digit and three - digit numbers

ODM EDUCATIONAL GROUP
Changing your Tomorrow

Generalized form of numbers (two - digit and three - digit numbers)

- https://www.youtube.com/watch?v=jq0eLNwJ0TM(3:54)

ODM EDUCATIONAL GROUP
Changing your Tomorrow

Exercise-5(A)

1)Write the quotient when the sum of 73 and 37 is divided by (i) 11 (ii) 10

Sol:

Sum of 73 and 37 is to be divided by

(*i*) 11 (*ii*) 10

Let $ab = 73$

and $ba = 37$

$\therefore\ a = 7$

and $b = 3$

(*i*) The quotient of $ab + bc$ *i.e.* $(73 + 37)$ when divided by 11 is $a + b = 7 + 3 = 10$

$$\left(\because \frac{ab + ba}{11} = a + b\right)$$

(*ii*) The quotient of $ab + ba$ *i.e.* $(73 + 37)$ when divided by 10 (*i.e.* $a + b$) is 11

$$\left(\because \frac{ab + ba}{a + b} = 11\right)$$

Exercise-5(A)

2) Write the quotient when the sum of 94 and 49 is divided by (i) 11 (ii) 13

Sol:

Sum of 94 and 49 is to be divided by

(*i*) 11 (*ii*) 13

Let $ab = 94$

and $ba = 49$

$\therefore\ a = 9$ and $b = 4$

(*i*) The quotient of 94 + 49 (*i.e.* $ab + ba$)

When divided by 11 is $a + b$ *i.e.* $9 + 4 = 13$

$$\left(\because \frac{ab+ba}{11} = a+b\right)$$

(*ii*) The quotient of 94 + 49 (*i.e.* $ab + ba$)

When divided by 13 *i.e.* $(a + b)$ is 11

$$\left(\because \frac{ab+ba}{a+b} = 11\right)$$

Exercise-5(A)

3) Find the quotient when 73 – 37 is divided by (i) 9 (ii) 4

Sol:

Difference of 73 – 37 is to be divided by

(*i*) 9 (*ii*) 4

Let $ab = 73$ and $ba = 37$

$\therefore\ a = 7$ and $b = 3$

(*i*) The quotient of 73 – 37 (*i.e.* $ab - bc$) when divided by 7 is $a - b$ *i.e.* $7 - 3 = 4$

$$\left(\because \frac{ab - ba}{9} = a - b\right)$$

(*ii*) The quotient of 73 – 37 (*i.e.* $ab - ba$) when divided by 4 *i.e.* $(a - b)$ is 9

$$\left(\because \frac{ab - ba}{a - b} = 9\right)$$

Home assignment

Exercise 5(A) – Q No 1 to 5

AHA

1. What is the original number, if the sum of the digits of a two-digit number is seven. By interchanging the digits is twenty seven more than the original number?

2. In a two-digit number, the digit in the units place is four times the digit in the tens place and sum of the digits is equal to 10. What is the number?

ODM EDUCATIONAL GROUP
Changing your Tomorrow

THANKING YOU

ODM EDUCATIONAL GROUP

ODM EDUCATIONAL GROUP
Changing your Tomorrow