Assignment for Whole Numbers

Question 1

Write the smallest natural and smallest whole number.

Question 2

Match the column

Closure Property	If a and b are any two whole numbers, then a+b = b+a and a×b = b×a.
Commutative property	If a and b are any two whole numbers, then a+b, axb are also whole numbers.
Associative property	If a, b and c are any two whole numbers, then a(b+c) = a×b + a×c.
Distributive property	If a, b and c are any two whole numbers, then (a+b)+c = a+(b+c) and (a×b)×c = a×(b×c).
Additive Identity	If a is any whole number, then a + 0 = a = 0 + a.
Multiplicative Identity	If a is any whole number, then a × 0

	= 0 = 0 × a.
Multiplication by zero	If a is any whole number, then a × 1 = a = 1 × a
Division by zero	If a is any whole number, then a ÷ 0 is not defined

Question

Match the column

191 +13 =13 +191	Associative Property of Multiplication.
90 +0 =00	Distributive Property of Multiplication over Addition.
(78 + 1) + 11 = 78 + (1 +11)	Commutative Property of Multiplication
(121 x 4) x 80 = 121 x (4 x 80)	Distributive Property of Multiplication over Subtraction.
12 x (10 + 85) = 12 x 10 + 12 x 85	Associative Property of Addition
71x (11 – 3) = 71 x 11 - 71 x 3	Additive Identity
10 x 45 = 45 x 10	Commutative Property of Addition.

Question 4

Fill in the blanks

(a) _____ × 13 = 13 × 18

(b) Whole numbers are closed under _____ and _____ operation.

(c) Division by _____ is not defined.

(d) _____ is the identity for multiplication.

(e) If _____ is added to a number, the sum will remain the same. Hence _____is called the _____ in the whole numbers.

Question 5

How many whole numbers are there between 12 and 86

Question 6

Find the product using Distributive property

(a) 168 × 102

(b) 625 × 279 - 625 ×79

Question 7

Find the successor and predecessor of each of the following whole numbers:

(i) 999

(ii) 21999

(iii) 4001

(iv) 500012

(v) 11111

Question 8

Seema got 99 marks in Math, 69 marks in English, and 91 in Science. Another student Rita got 92 marks in Math, 33 in English and 84 in Science. What are their total marks?

Question 9

Ramesh ordered 10 cartons of chocolates to distribute among the class. Each carton holds 20 boxes and each box has 12 chocolates. How many chocolates did Ramesh order altogether?

Question 10

Mukesh lives form a hostel which charges Rs 55 for Dinner and 45 for Lunch. Find the money he has to pay for seven days.

Answer

1

The smallest natural number is 1

The smallest whole number is 0.

2.

Closure Property	If a and b are any two whole numbers, then a+b, axb are also whole numbers.
Commutative property	If a and b are any two whole numbers, then a+b = b+a and a×b = b×a.
Associative property	If a, b and c are any two whole numbers, then (a+b)+c = a+(b+c) and (a×b)×c = a×(b×c).

Distributive property	If a, b and c are any two whole numbers, then a(b+c) = a×b + a×c.
Additive Identity	If a is any whole number, then a + 0 = a = 0 + a.
Multiplicative Identity	If a is any whole number, then a × 1 = a = 1 × a
Multiplication by zero	If a is any whole number, then a × 0 = 0 = 0 × a.
Division by zero	If a is any whole number, then a ÷ 0 is not defined

3.

191 +13 =13 +191	Commutative Property of Addition
90 +0 =00	Additive Identity
(78 + 1) + 11 = 78 + (1 +11)	Associative Property of Addition
(121 x 4) x 80 = 121 x (4 x 80)	Associative Property of Multiplication.
12 x (10 + 85) = 12 x 10 + 12 x 85	Distributive Property of Multiplication over Addition.
71x (11 – 3) = 71 x 11 - 71 x 3	Distributive Property of Multiplication over Subtraction.
10 x 45 = 45 x 10	. Commutative Property of Multiplication

4)
(a) 18
(b) Addition and Multiplication.
(c) 0.
(d) 1.
(e) 0, 0, Identity element for Addition.

5) 75

6)

(a) 168 × 102 =168× (100+2) = 16800 + 336=17136
(b) 625 × 279 - 625 ×79 =625× (279-79) = 625×200=125000

8) Marks obtained by Seema :
Math = 99
English = 69
Science = 91
∴ Total marks obtained by Seema =99 + 69 + 91 = 259
Marks obtained by Rita :
Math = 92
English = 32
Science = 84
∴ Total marks obtained by John =92 + 33 + 84 = 209

9) 240 chocolates

10) Amount paid for lunch = 45
Amount paid for dinner = 55
Number of days = 7
Money paid by him in 7 days = 7 x (55 +45) = 700