

Selina Solutions Concise Mathematics Class 6 Chapter 5 **Natural Numbers And Whole Numbers**

EXERCISE 5(B)

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1. Consider two whole numbers a and b such that a is greater than b. (i) Is a – b a whole number ? Is this result always true? (ii) b-a a whole number ? Is this result always true? Solution: Let us take a = 2 and b = 1(i) a - b = 2 - 1= 1 Yes, a - b is a whole number and the result will always remain true (ii) b - a = 1 - 2= -1 No, (b - a) cannot be a whole number and this result will always remain true.

2. Fill in the blanks :

(i) $8 - 0 = \dots$ and $0 - 8 = \dots$ $8 - 0 \neq 0 - 8$, this shows subtraction of whole numbers is not (ii) $5 - 10 = \dots$, which is not a => Subtraction of is not closed. (iii) $7 - 18 = \dots$ and $(7 - 18) - 5 = \dots$ $18-5 = \dots \text{ and } (7-18)-5 = \dots$ Is (7-18) - 5 = 7 - (18 - 5)? => Subtraction of whose numbers is not Solution: (i) 8 - 0 = 8 and 0 - 8 = -8 $8 - 0 \neq 0 - 8$, this shows subtraction of whole numbers is not commutative (ii) 5 - 10 = -5, which is not a whole number => Subtraction of **whole numbers** is not closed. (iii) 7 - 18 = -11 and (7 - 18) - 5 = -1618 - 5 = 13 and (7 - 18) - 5 = -6Is (7-18) - 5 = 7 - (18 - 5) = ?No $(7 - 18) - 5 \neq 7 - (18 - 5)$

=> Subtraction of whole numbers is not **associative**

3.Write the identity number, if possible for subtraction. **Solution:**

It is not possible because for subtraction no identity number exists.

4. Write the inverse, if possible for subtraction of whole numbers? Solution:

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Since subtraction for every non-zero whole number does not have identity number, its inverse does not exist.

5. $12 \ge (9-6) = \dots = \dots$ $12 \ge 9 - 12 \ge 6 = \dots = \dots$ Is $12 \ge (9-6) = 12 \ge 9 - 12 \ge 6? \dots$ Is this type of result always true? Name the property used here Solution: $12 \ge (9-6) = 12 \ge 3 = 36$ $12 \ge 9 - 12 \ge 6 = 108 - 72 = 36$ Is $12 \ge (9-6) = 12 \ge 9 - 12 \ge 6?$ Yes Is this type of result always true? Yes Name the property used here Distributive property

6. (16 - 8) x 24 = = 16 x 24 - 8 x 24 = = Is (16 - 8) x 24 = 16 x 24 - 8 x 24? Is the type of result always true? Name the property used here Solution:

 $(16-8) \times 24 = 8 \times 24 = 192$ $16 \times 24 - 8 \times 24 = 384 - 192 = 192$ Is $(16-8) \times 24 = 16 \times 24 - 8 \times 24$? Yes Is the type of result always true? Yes Name the property used here Distributivity.