

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

EXERCISE 5(A)

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1. Fill in the blanks : (i) Smallest natural number is (ii) Smallest whole number is (iii) Largest natural number is (iv) Largest whole number is (v) All natural numbers are Solution:

- (i) Smallest natural number is 1
- (ii) Smallest whole number is 0
- (iii) Largest natural number is not possible
- (iv) Largest whole number is not possible
- (v) All natural numbers are whole numbers

2. Represent the following whole numbers on a number line:

0, 3, 5, 8, 10

Solution:

Number line used to represent whole numbers 0, 3, 5, 8, 10 is shown below

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3. State, true or false :

(i) Whole number are closed for addition.

(ii) If a and b are any two whole numbers, then a + b is not a whole number.

(iii) If a and b are any two whole numbers, then a + b = b + a

(iv) 0 + 18 = 18 + 0

(v) Addition of whole numbers is associative.

Solution:

- (i) True
- (ii) False
- (iii) True
- (iv) True
- (v) True

4. Fill in the blanks :

(i) 54 + 234 = 234 + (ii) 332 + 497 = + 332 (iii) 286 + 0 =

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(iv) $286 \times 1 = \dots$ (v) $a + (b + c) = (a + \dots) + c$ Solution: (i) 54 + 234 = 234 + 54(ii) 332 + 497 = 497 + 332(iii) 286 + 0 = 286(iv) $286 \times 1 = 286$ (v) a + (b + c) = (a + b) + c5. By re-arranging the given numbers, evaluate: (i) 237 + 308 + 163(ii) 162 + 253 + 338 + 47(iii) 21 + 22 + 23 + 24 + 25 + 75 + 76 + 77 + 78 + 79 (iv) 1 + 2 + 3 + 4 + 596 + 597 + 598 + 599 Solution: (i) 237 + 308 + 163=(237+163)+308(by associative law) =400+308= 708(ii) 162 + 253 + 338 + 47(by associative law) =(162+338)+(253+47)= 500 + 300= 800(iii) 21 + 22 + 23 + 24 + 25 + 75 + 76 + 77 + 78 + 79 = (21 + 79) + (22 + 78) + (23 + 77) + (24 + 76) + (25 + 75)(by associative law) = 100 + 100 + 100 + 100 + 100= 500(iv) 1 + 2 + 3 + 4 + 596 + 597 + 598 + 599 = (1 + 599) + (2 + 598) + (3 + 597) + (4 + 596)(by associative law) = 600 + 600 + 600 + 600= 2400

6. Is a + b + c = a + (b + c) = (b + a) + c? Solution:

Yes, for any set of three whole numbers if the sum of any two whole numbers is added to the third whole number, then whatever be the order, the sum will remain the same.

7. Which property of addition is satisfied by:

(i) 8 + 7 = 15

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(ii) 3+(5+4)=(3+5)+4(iii) $8 \times (8 + 0) = 8 \times 8 + 8 \times 0$ (iv) $(7+6) \times 10 = 7 \times 10 + 6 \times 10$ (v) $(15 - 12) \times 18 = 15 \times 18 - 12 \times 18$ Solution: (i) 8 + 7 = 15The property used as closure property satisfied by 15 (ii) 3 + (5 + 4) = (3 + 5) + 43 + (5 + 4) = 3 + 9 = 12 and (3+5)+4=8+4=12The property used as Associative law of addition satisfied by 12 (iii) $8 \times (8 + 0) = 8 \times 8 + 8 \times 0$ $8 \times (8+0) = 8 \times 8$ = 64 and $8 \times 8 + 8 \times 0 = 64 + 0$ = 64The property used as Distributivity of multiplication over addition satisfied by 64 (iv) $(7+6) \times 10 = 7 \times 10 + 6 \times 10$ $(7+6) \times 10 = 13 \times 10$ = 130 and $7 \times 10 + 6 \times 10 = 70 + 60$ = 130The property used as Distributive property over addition satisfied by 130 (v) $(15-12) \times 18 = 15 \times 18 - 12 \times 18$ $(15-12) \times 18 = 3 \times 18$ = 54 and $15 \times 18 - 12 \times 18 = 270 - 216$ = 54 The property used as Distributive over subtraction satisfied by 54

8. State, True or False :

(i) The sum of two odd numbers is an odd number.

(ii) The sum of two odd numbers is an even number.

(iii) The sum of two even numbers is an even number.

(iv) The sum of two even numbers is an odd number.

(v) The sum of an even number and an odd number is odd number.

(vi) Every whole number is a natural number.

(vii) Every natural number is a whole number.

(viii) Every whole number + 0 = The whole number itself.

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(ix) Every whole number $\times 1 =$ The whole number itself.

(x) Commutativity and associativity are properties of natural numbers and whole numbers both.

(xi) Commutativity and associativity are properties of addition for natural and whole numbers both.

(xii) If x is a whole number then –x is also a whole number. Solution:

(i) False

The sum of two odd numbers is an even number

- (ii) True
- (iii) True

(iv) False

The sum of two even numbers is an even number

(v) True

(vi) False

Every natural number is a whole number

(vii) True

(viii) True

(ix) True

- (x) True
- (xi) True
- (xii) True