



### Exercise 1B

Question 4:

(i) True. Since the collection of natural number is a sub collection of whole numbers, and every element of natural numbers is an element of whole numbers

(ii) False. Since 0 is whole number but it is not a natural number.

(iii) True. Every integer can be represented in a fraction form with denominator 1.

(iv) False. Since division of whole numbers is not closed under division, the value of  $p/q$ ,  $p$  and  $q$  are integers and  $q \neq 0$ , may not be a whole number.

(v) True. The prime factors of the denominator of the fraction form of terminating decimal contains 2 and/or 5, which are integers and are not equal to zero.

(vi) True. The prime factors of the denominator of the fraction form of repeating decimal contains integers, which are not equal to zero.

(vii) True. 0 can considered as a fraction  $0/1$ , which is a rational number.

\*\*\*\*\* END \*\*\*\*\*