

Class 6th

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Mathematics

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Ex#1d(pg9)

▶ Exercise 1d

1. Make a list of finite sets and infinite sets from the following:
 - (i) set of cities in Pakistan **F**
 - (ii) set of universities in Lahore **F**
 - (iii) set of whole numbers **I**
 - (iv) set of negative integers **I**
 - (v) set of points on a line segment **I**
 - (vi) set of vowels of the alphabet **F**
2. Make a list of empty sets from the following:
 - (i) set of whole numbers between 9 and 10 **{ }**
 - (ii) set of people who landed on Mars before 1994 **{ }**
 - (iii) set of integers between 4 and 6
 - (iv) set of even primes
 - (v) set of three-digit numbers greater than 1000
 - (vi) set of points of intersection of two non-parallel lines

Finite= limited or countable, measurable

Infinite= unlimited, uncountable, not measurable

Equal Sets:

If two sets have same elements then they are called equal sets.

3. Make a list of the pairs of sets which are equal, from the following:

- (i) $A = \{2, 3, 4\}$, $B = \{3, 4, 5\}$
- (ii) $A = \{1, 4, 9\}$, $B = \{12, 22, 32\}$
- (iii) $A = \{a, b, c, d, e\}$, $B = \text{set of vowels of English alphabet}$
- (iv) $A = \{2\}$, $B = \text{set of even primes}$
- (v) $A = \{\text{multiples of 7 less than 30}\}$, $B = \{14, 21, 28\}$
- (vi) $A = \{0\}$, $B = \emptyset$
- (vii) $A = \{a, b, c\}$, $B = \{c, b, a\}$
- (viii) $A = \{n, i, l, e\}$, $B = \{m, i, l, e\}$
- (ix) $A = \{e, a, t\}$, $B = \{t, e, a\}$
- (x) $A = \{x : x \text{ is an even number less than 4}\}$, $B = \{2\}$
- (xi) $A = \{s, m, q\}$, $B = \{m, q, s\}$

