Chapter One:

❖ What are Psychological tests & why do we need them?

- Development & application of psych tests considered one of the major achievements of psychologists in the last century
- Tests used to assist in making decisions or promoting self-understanding by providing more accurate info about human behavior
- Psych tests important for conducting psych research
- Select, administer, score & interpret psych tests -> core skill for professional psychologists
- ***** History of psych testing:

TIMELINE OF MAJOR DEVELOPMENTS IN THE HISTORY OF PSYCHOLOGICAL TESTING

The term 'mental test' is first used by James McKeen Cattell

Alfred Binet and Theodore Simon devise the first test of intelligence for use with children

Lewis Terman publishes the Stanford-Binet test, based on the pioneering work of Binet and Simon

Robert Yerkes leads the development of the Army Alpha and Beta tests for selection for military service in the USA

1917	Robert Woodworth devises the first self-report test of personality
1921	Hermann Rorschach, a Swiss psychiatrist and psychoanalyst, publishes <i>Psychodiagnostics</i> on the use of inkblots in evaluating personality
1927	The first version of the Strong Vocational Interest Blank is published
1938	Oscar Buros publishes the first compendium of psychological tests, the Mental Measurements Yearbook
1939	David Wechsler reports an individual test of adult intelligence
1942	The Minnesota Multiphasic Personality Inventory (MMPI) is published to assist the differential diagnosis of psychiatric disorder
1948	Henry Murray and colleagues publish Assessment of Men and the term 'assessment' comes to replace mental testing as a description of work with psychological tests
1957	Raymond Cattell publishes on performance tests of motivation
1962	Computer interpretation of the MMPI is introduced
1968	Walter Mischel publishes his widely cited critique of personality assessment
1970	Computers are used for testing clients; computerised adaptive testing follows
1971	The Federal Court in the USA challenges testing for personnel selection
1985	Publication in the USA of the first edition of the Standards for Educational and Psychological Testing
1988	Jay Ziskin and David Faust challenge the use of psychological test results in court
1993	The American Psychological Association publishes guidelines for computer-based testing and interpretation
1993	John Carroll publishes <i>Human Cognitive Abilities: A Survey of Factor-Analytic Studies</i> , in which he proposes his three-stratum theory of intelligence
1999	Publication of the second edition of the Standards for Educational and Psychological Testing
2001	Gregory Meyer and colleagues publish the results of a review of 125 earlier literature reviews indicating the value of psychological tests

- Origins:
- > Chinese dynasties in public service examinations
- Era of Han dynasty
- Programs of testing conducted from 2000BCE to early 20th century
- Modern development of psychological testing due to:
- ➤ USA need to select men for military service during WW1
- ➤ Work of Alfred Binet:
- ❖ Provided method to objectively determine which children would benefit from special education- devised first modern intelligence test
- ❖ Quantified intelligence in terms of mental age
- ❖ Mental age: child's standing among children of different chronological ages in terms of his/her cognitive capacity
- ❖ Binet thought of as originator of psychological testing
- * Relied on skills taught at school (verbal skills- most important)
- Charles Spearman first theory of intelligence (something common in all cognitive ability tests)
- Henry Goddard, Cyril Burt & Gilbert Phillips developed versions of Binet's test
- Stanford-Binet test:
- ➤ Lewis Terman
- Most ambitious version of the Binet's test for English speakers
- ➤ Appropriate for ages 3-16 years
- David Wechsler:
- > Test for individual assessment of adult intelligence
- ➤ Individual test of general ability for adults
- > Inpatient psychiatric settings as an aid in differential diagnosis
- Sought a test that would provide an overall assessment of intellectual intelligence & a test that would assist in identifying which possible diagnosis was the most likely
- > Superior to Stanford-Binet test:
- Content more age appropriate
- * Replaced mental age scoring with Deviation IQ method
- ❖ Deviation IQ method: compared performance of individual with that of his/her age peers by dividing the difference between the individual's score and the mean for the group by SD of the scores for the group
- Deviation IQ method continues to be used in Wechsler & Binet tests to this day
- Practical ability tests:
- > Stanley Porteus:
- Earliest researcher
- ❖ Mazes used to assess comprehension & foresight
- ❖ Test: test taker must trace increasingly complex mazes while avoiding dead ends & not lifting pencil from paper (still used by neuropsychologists to test executive functioning)
- ❖ Forerunner of the development in Australia of a number of tests of ability that aren't dependent on access to English for their administration
- Donald McElwain & George Kearney:
- Queensland test
- Administrator of the test used mime to indicate task requirements

- Performance tests & Binet's test & its adaptations were individual tests
- Arthur Otis & Cyril Burt trialed group tests of intelligence
- Clarence Yoakum & Robert Yerkes developed two group tests of general mental ability for use with recruits to US armed services in WW1:
- Army alpha test: access ability levels of those who could read/write
- Army Beta test: for those not literate
- Army Alpha & Beta tests valuable for psychological testing in postwar period & structure used by Wechsler when developing Verbal & Performance subscales for his test of adult intelligence.
- Robert Woodworth:
- ► 1st self report personality test
- Screening test for psychological adjustment to military
- > Short questions from textbooks of psychiatry
- ➤ Forerunner of self-report tests
- Starke Hathaway & John McKinley:
- Minnesota Multiphasic Personality Inventory (MMPI)
- ➤ Self-report test
- ➤ Designed to discriminate between those without mental illness (normals) and patient groups with diagnoses (yield 2 patterns of response (strategy: empirical keying)
- ➤ Was long (566 items)
- > Heterogeneous content
- ➤ Included 4 validity scales
- Edward Strong
- > Strategy: empirical keying
- Developed a test of vocational interest
- ➤ Basis for occupational & vocational guidance
- Personality & cognitive functioning tests were the principle methods of clinical judgment
- Objective tests: method of scoring is straightforward for scorers of the same test (ones discussed above)
- Projective tests:
- > "Projective techniques"
- Genesis in psychodynamic theorizing
- ➤ Freud psychic determinism: all mental events have a cause (taken to mean that no behavior is accidental but it betrays the operation of unconscious motivational effects)
- Herman Rorschach:
- > Follower of Jung
- ➤ Inkblot tests
- Henry Murray:
- Projective hypothesis
- ➤ Test takers must draw on their own psychic resources & demonstrate workings of their mind
- ➤ Thematic Apperception Test (TAT): a projective test
- ➤ Diagnostic council: case conference whereby all staff involved with a particular participant in the project would provide info/interpretation (consensus view about personality structure & dynamics of the individual)