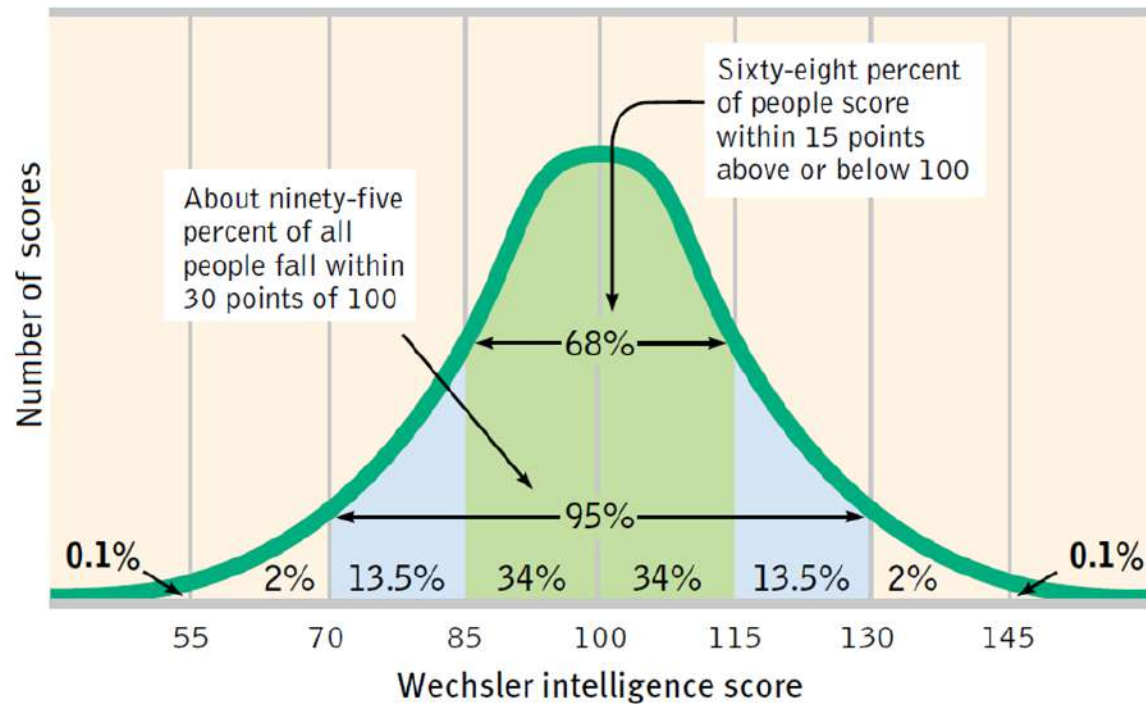


Intelligence Testing Review Sheet

Name	Origins of Intelligence	Name of Test	Summary of Test
Francis Galton (Cousin of Charles Darwin)	Nature —Intelligence comes from good genes. He suggested that smart families should breed and believed in <i>eugenics</i>	None. His attempts were crude and unscientific	<ul style="list-style-type: none"> He looked at successful European families in his book <i>Hereditary Genius</i>
Alfred Binet	Nurture -- Assumed low scoring kids could make gains with more remedial help and attention.	Binet's Mental Ability Test	<ul style="list-style-type: none"> Tested French school children to determine their strengths and weaknesses. Provided a mental age, showing the intellectual capabilities of the student.
William Terman	Nature —Also supported <i>eugenics</i> ; encouraged low scoring groups to become sterilized.	Stanford-Binet	<ul style="list-style-type: none"> Revised Binet's Mental Ability Test First to adopt IQ score $IQ = \text{mental age} / \text{chronological age} \times 100$ (Note: this procedure is no longer used to calculate IQ) Only included verbal sections and were biased against non-English speakers. Tested immigrants (which led to quotas in immigration policy) and WWI recruits.
David Wechsler	Nurture —believed in a broad view of intelligence. "Intelligence is the aggregate or global capacity of an individual to act purposefully, to think rationally and to deal effectively with the environment."	WAIS (for adults) WISC (for children)	<ul style="list-style-type: none"> Includes 11 sections, including verbal and performance subtests. Allowed non-English speakers to demonstrate their intelligence on the performance sections

Test Construction

1. **Standardization**—Allows a researcher to make meaningful comparison by giving the test to a preselected group that is representative of the population. Tests are re-standardized in order to keep the average at 100. This enables the test scores to be placed on a **normal curve**, where the standard deviation is 15 IQ points.



2. **Reliability**-- A test produces consistent results (like Mr. Uliasz's shoe size x10 IQ test). Can be tested by using:
 - Split half—Divide test into two halves and compare the results (like odd v. even)
 - Different tests—Take the test more than once and compare the results.
3. **Validity**-- A test measures what it is supposed to measure.
 - Content validity—extent that the test measures a subject, trait, or behavior (A math test measures math skills)
 - Predictive validity—how well test predicts a future behavior or trait; used in aptitude tests, like the SAT that attempt to predict success on a criterion (GPA freshman year).
 - Note: as the range of scores narrows the predictive validity of a test weakens (football lineman and weight example).