

#### VIEWS OF INTELLIGENCE

- Definition highly debated
- Intelligence = the ability to acquire new ideas/behaviour and adapt to new situations.
  - In what ways is Sheldon intelligent?
  - In what ways is he not intelligent?
- We will look at 5 theories of intelligence

# 1. Two-Factor Theory of Intelligence

- o Spearman, 1904
- Factor G = person's general intelligence
  - Problem solving
- Factor S = person's specific mental abilities
  - Verbal skills, math skills...
- Criticism: does not measure music, motor, creative...

# 2. Thurstone's Theory of Intelligence

- Opponent to Spearman's Two-Factor
- No evidence for general intelligence
- Seven primary mental abilities (p. 349)
  - Verbal comprehension
  - Numerical ability
  - Spatial relations
  - Perceptual speed
  - Word fluency
  - Memory
  - Inductive reasoning

### 3. GARDNER'S MULTIPLE INTELLIGENCES

- 1983, 1999
- 8 different and unrelated intelligences
  - Verbal ability
  - Logical-mathematical
  - Spatial ability
  - Musical ability
  - Body-kinesthetic ability
  - Interpersonal skills
  - Intra personal skills
  - Naturalist intelligence
- Criticism: are these intelligences or skills and talents?

# 4. Sternberg's Triarchic Theory of Intelligence

- 1985
- Three ways of processing information
  - Analytical thinking skills
  - Creative thinking
  - Practical thinking
- Criticism: Difficult to measure
- Ms Aldcroft's criticism of the critics: does everything have to be measured? Is there truth in numbers? Even numbers have to be interpreted...

#### 5. EMOTIONAL INTELLIGENCE

- IQ is not an indicator of success and fulfillment
- EQ has been found to better indicate success and happiness
- Four Aspects
  - Perceive and express emotions
  - Use emotions while thinking
  - Understand emotions and use info effectively
  - Regulate emotions and promote personal growth
- Critics: this is a measure of extraversion (how outgoing one is)

#### DEVELOPMENT OF INTELLIGENCE TESTS

- Stanford-Binet (traditional IQ test)
- P. 352 explains how it was created
- Mental age derived on test
- IQ = Mental age ÷ Chronological age x 100
  - Mental age  $15 \div$  Chronological age  $10 \times 100 = IQ 150$
- IQ 100 +/- 7 is average

## Uses and Meaning of IQ Scores

- o 95% are "average" and score between 70 and 130
- Bottom 2% = profound intellectual disability
- $\circ$  Top 2% = genius
- Useful for predicting academic success
- Critics: do they measure intelligence...is success in school a measure of intelligence?
  - Girls tend to experience more academic success
  - Boys tend to experience more career success

## CONTROVERSY OVER IQ TESTING

- High degree of heritability
  - As degree of relationship increases, so does similarity in IQ
  - Bouchard: Up to 70% of IQ variance can be attributed to genetics
- Environmental factors: Head Start programs
- Cultural Bias: some questions favour certain groups
  - Edurado Tolentino