

## Chapter 9: Thinking and Intelligence

# Objectives



After studying this chapter, you should be able to do the following:

1. Define thinking.
2. Define and distinguish among concepts (including basic concepts and prototypes), propositions and cognitive schemas.
3. Distinguish among subconscious processes, nonconscious processes and mindless conscious processing.
4. Distinguish between an algorithm and a heuristic.
5. Distinguish among reflective judgment, inductive, deductive and dialectical reasoning, and between informal and formal reasoning.
6. List and describe the stages of reflective judgment, according to studies by King and Kitchener.
7. Discuss six types of cognitive bias that can influence reasoning.
8. Describe the conditions under which people are most likely to try to reduce dissonance.
9. Define and explain the g factor in intelligence.
10. Distinguish between the psychometric approach and cognitive approaches to intelligence.
11. Discuss the objectives, uses and criticisms of IQ tests.
12. Describe the components of Sternberg's theory of intelligence and discuss whether these components are measured on most intelligence tests.
13. Describe Gardner's theory of multiple intelligences.
14. Describe factors other than intelligence that contribute to achievement.
15. Discuss the cognitive abilities found in nonhuman