

# Chapter 1 - Exercises

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- a. guide to improving human behavior.
- b. recipe for avoiding conflicts.
- c. process for finding connections in nature.
- d. handbook for establishing truth.

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- b. not as useful as when gambling or testing your luck.
- c. now outmoded.
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- b. hypothesis of sorts.
- c. vast synthesis of well-tested hypotheses and facts.
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The great philosopher and mathematician Bertrand Russell (1872-1970) wrote about ideas in the early part of his life that he rejected in the latter part of his life. Do you see this as a sign of weakness or a sign of strength in Bertrand Russell?



Do you speculate that your present ideas about the world around you will change as you learn and experience more, or do you speculate that further knowledge and experience will solidify your present understanding?



Which of these is a scientific hypothesis  
(that could be proved wrong)?

- a. Atoms in proper proportions make us feel good.
- b. Atoms are in all the stars in the universe.
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Explanation: Statement c has, in fact, been proved wrong. Protons and electrons, for example, are smaller than atoms.

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C) telescope.

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- B) There are things we will never know about.
- C) Matter is filled with undetectable particles.
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B) the arts.

C) religion.

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