

PART B

SECTION B

Hunger, like the other appetites, is more powerful in impelling men to action when the means for its appeasement are difficult to procure and the possession of the means insecure over a period of time. In primitive cultures, therefore, hunger as a drive plays a more important role than in advanced societies. This distinction does not hold for all individuals in a society because societies do not advance as units. Nevertheless, a nutritive deficiency leading to hunger contractions is relatively less frequent among the unemployed in modern society than among those primitive groups which rely upon hunting for their sustenance.

QUESTIONS ON SECTION B

53. Which of the following inferences can most properly be made on the basis of the statements in the paragraph?
- () 1. Hunting is always a necessity, and never a sport, in primitive societies.
 - () 2. Members of advanced societies spend much less time thinking about food than members of primitive societies.
 - () 3. None of the other three conclusions given here can properly be inferred on the basis of the information given in the paragraph.
 - () 4. The hungriest people in advanced societies have, nevertheless, more to eat than the best fed members of primitive societies.
54. On the basis of the paragraph, which of the following statements is most tenable?
- () 1. A society is composed of individuals who do not respond differentially to the same drive.
 - () 2. Equally unsatisfied appetites are stronger drives in primitive societies than in modern societies.
 - () 3. Hunger is a more powerful drive to action than the other appetites.
 - () 4. Society is homogeneous in its changes.

PART C

DIRECTIONS: Four possible answers are given for each of the remaining questions. Put an X in the parentheses in front of the number corresponding to that answer which you think is most nearly correct.

105. Following is the average height in inches, and weight in pounds, of a given population.

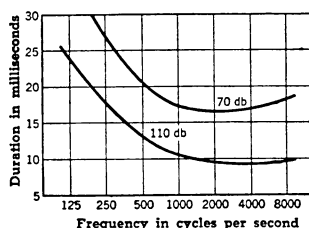
Height	Weight
74	164
73	163
72	162
71	160
70	157

Which of the following graphs — A, B, or C — is the correct representation of the data?

- () 1. A
- () 2. B
- () 3. C
- () 4. All are correct.

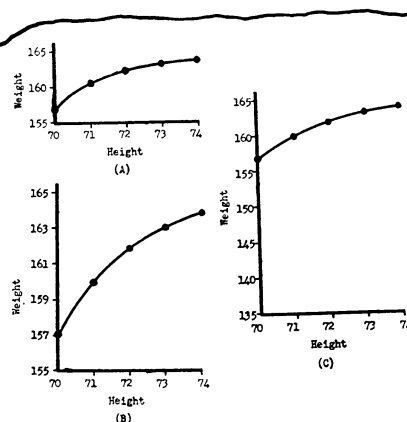
SECTION I

The diagram shows the minimum durations necessary for a tone to sound like a tone.



QUESTIONS ON SECTION I

80. According to the graph, which of the following statements is most nearly true?
- () 1. The higher the frequency of tones, the greater is the loudness, when duration is equal.
 - () 2. The pitch of tones is expressed in decibels.
 - () 3. Tones in the lower frequency range require greater duration to be heard than tones of higher frequencies.
 - () 4. Tones must last almost .010 seconds before they sound like tones.
81. The minimum durations shown were probably established on the basis of
- () 1. measurement of one complete sine wave
 - () 2. judgments of recognizing a tone or a click
 - () 3. measurement by means of a loudness meter
 - () 4. the logarithmic relationship of duration and pitch



The 40 high school seniors who come out on top will be in Washington Feb. 26 through March 2, for the Twelfth Annual Science Talent Institute. They will meet and talk with leading scientists, visit some of the extensive government research laboratories, hear scientific lectures and attend a final banquet when the winners of the \$11,000 in scholarships will be announced, and receive special gold Science Clubs of

America pins. The scholarships can be used at any accredited school selected by a winner.

The science aptitude test was compiled by two of the four judges of the Science Talent Search: Dr. Harold A. Edgerton, vice-president, Richardson, Bellows, Henry & Co., New York, and Dr. Steuart Henderson Britt, vice-president and director of research, Needham, Louis & Brorby, Inc., Chicago.

The other two judges of the Science Talent Search are Dr. Harlow Shapley of the Harvard College Observatory, president of SCIENCE SERVICE, and Dr. Rex E. Buxton, psychiatrist of Washington.

If you want to see the complete aptitude test used in the Twelfth Annual Science Talent Search, send ten cents in coin to SCIENCE SERVICE, 1719 N St., N.W., Washington 6, D. C., and ask for the science aptitude test.

Science News Letter, January 24, 1953

The bat is the only winged mammal.

A new warmth fiber used in some boys' clothing is made from natural gas and common salt.

PUBLIC HEALTH

Long-Freezing of Pork Stops Painful Trichinosis

► THE HOME freezer or even the freezer compartment in the home refrigerator can be used to protect the family from trichinosis. This painful and serious disease comes from eating undercooked pork containing the worm-like parasites called trichinae.

Cooking kills these parasites, but the meat must be thoroughly cooked. Directions usually are to cook until the meat is white instead of pink.

Freezing also kills the parasites, but the temperature must be really low and held there for a considerable time. Dr. L. A. Spindler, parasitologist of the U. S. Department of Agriculture, has found that refrigeration for 20 days in a freezer at five degrees Fahrenheit will kill the trichinae when the meat is not more than six inches thick. If the meat is thicker than six inches, another 10 days at five degrees Fahrenheit is required to kill all the parasites. If the freezer can be set to 10 degrees below zero Fahrenheit, the trichinae will be killed within 10 days in a piece of meat six inches thick. At twenty degrees below, six to 12 days is enough.

Science News Letter, January 24, 1953

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