<i> </i>	學習與	教學研究所	科目:	英文
D. you are able  10looks like a single red clover flower is actually an egg-shaped cluster of little flowers  petals are joined into a tube.  A. What, whose B. That, where C. Which, which D. It, in which  11. Mexico's food is highly seasoned spices, much of the food in Latin American countries.  A. in, so does B. with, as is C. by, so is D. for, like	A. Although B. Once upon C. Long before D. Ever since  9. You will probably see several eclipses of the moon in your lifetime, but only rarely to see a total solar eclipse.  A. will you be able B. can you be able	7. Nowadays nearly all jobswomen and they have full legal equality with men.  A. which are opened for B. are open to  C. which are opening for D. open to  8the principles of genetics were known, early people began to domesticate wild animals and plants.	A. its short of self-rule  C. it fell short of self-rule  D. of short in self-rule  D. of short in self-rule  C. of the fundamentals of elementary algebra used today and the concept of an algebraic structure.  A. evolved the abstract algebra  B. the abstract algebra evolution is  C. is evolved the abstract algebra  D. evolution of the abstract algebra	2. Good English is the form of speech which is appropriate to the purpose of the speaker, and true to the language  A. would it be B. like it would be C. what it is D. as it is  3
seen easily from earth.  9. Most of us spend our lives surrounded by animals of one find or another, although sometimes we aware of them.  A  10. Jet propulsion can take place in a vacuum as long as oxygen is provision to burn the engine's fuel.  A  B  C  D	bodies of water can be said to be in flood.  7. The mild climate of Florida makes it possible for commercial crops be grown year-round.  A B C P  8. About three or four times a century, a comet passes so close by our sun that its bright solowing to	5. Land developers who are require to better public know how their proposed developments are lip affect the environment.  6. It is only when great amounts of overflowing of water cause severe damage to large surrounding	followed by universities all over the world.  3. Grinding is a way in shaping an object by wearing away some of the material of which it is made a shaping an object by wearing away some of the material of which it is made a shaping and plant of the material of which it is made another world to sugar which a world or phrase is taken out of its usual setting and plant of the material of which a world or phrase is taken out of its usual setting and plant of the material of which it is made another world to sugar which it is made another world.	observe.  A. visibly B. it visible C. visible D. them visible  II. Choose the one underlined word or phrase that must be changed in order for the sentence to be co  30%  1. Even giraffes were once widely spread across the African plains, many have been killed off.  A. visibly B. it visible C. visible D. them visible  II. Choose the one underlined word or phrase that must be changed in order for the sentence to be co  30%  2. Famous universities founded at Heidelberg, Leipzig, and Rostock helped to set standard that were

A. would it be B. like it would be C what it is D as it is	2. Good English is the form of speech which is appropriate to the purpose of the speaker, and true to the language	made up o	1. Most of the foods cereals are similar in mutitional value.	I. Choose the one word or phrase that best completes the sentence 200/	QUESTIONS		CDABC	答案請寫在 <u>答案本</u> 第一頁。作答時請將答案本橫置,大題標明清楚,一行寫十個答案。例:I. ABCDA BCDAB
A. visibly B. it visible C. visible D. them visible	15. X-rays are able to pass through objects and thus make details that are otherwise impossible to observe.	A. It seems, not B. It is, not C. There is, have not D. Only, have	14. much that scientists yet learned about amphibians.	A. people call B. what is C. what we call D. been called	13. The great works of painting and sculpture created by master artists are fine art	C. to decorate gardens and city squares D. which decorate gardens and city squares	A. decorating gardens and city squares  B. those that decorate gardens and city squares	12. The Italians delight in elaborate combinations of sculpture and water, such as

30% Thoose the <u>one</u> underlined word or phrase <u>that must be changed</u> in order for the sentence to be correct

and developers who are peech in which a word or phrase is taken out of its usual setting and place with AThe public know how their proposed developments are likely to C

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11. Many pet fish die from overfeeding than from any other cause A12. The Atlantic Ocean is a huge body of water secondly only to the Pacific Ocean in size.

13. With water vapor and dust particles are removed, air is a mixture of coloriess gases A

14. Although atoms are invisible, their patterns may be projected onto the screen of a special microscope

A
B which it magnifies them over a million times. C

15. Calcium, the most abundantly mineral in the body, works with phosphorus in maintaining bones and teeth.

III. Reading Comprehension: 40%

treatment, and even more effective economic policy. extraordinarily efficient sources of energy, the computer revolution, quantum advances in medical care and Basic research has spawned the high-technology industry as we know it. It has also produced new and must continue to yield significant breakthroughs in the future if civilized society is to grow and prosper. agreement among the experts in the field that basic research has yielded enormous payoffs in the past, and knowledge. Basic research seeks no better mousetrap, but only better understanding. There is widespread Basic research, in contrast to applied research, is simply the pursuit of knowledge for the sake of

beneficiary will pay nothing to defray the costs of this advance in knowledge. conducted by company A may well be company B in another industry. And it is likely that this distant firms themselves. Moreover, the enterprise that derives the greatest benefit from the basic research research yields valuable discoveries, may very well not be of direct and tangible benefit to the sponsoring facilities and the cost, because money that publicly-held companies spend for basic research, even if the owned and operated by the government. Business and private industry contributed only a small share of the These dramatic revolutions in technology originated primarily in major universities and in laboratories

knowledge and quicker to learn how to use it for its own purposes. benefit its key business rival, company C. This rival may be quicker to appreciate the value of the new the benefits that accrue from the research. Worse still, sometimes company A's basic research will primarily company B mentioned above) are more than likely to reap some portion of, and not infrequently the bulk of, investment in basic research is generally not profitable to private companies because free riders (such as Economists have traditionally termed this situation the "free-rider problem": to make a heavy

they do not find themselves seriously threatened by their competition these huge corporations, however, will continue to fund respectable programs of basic research only as long as vulnerability to competitors in the marketplace, have sponsored an extensive level of basic research. Even Up until the present time, only giant companies, whose enormous market shares have reduced their

It is little wonder that a recent report by the Committee for Economic Development, an organization

1. The main idea of the passage is best described as an attempt to

there was no realistic alternative to the Federal Government as the primary source of support for basic

composed largely of business executives little inclined to encourage government expenditure, concluded that

A. compare and contrast basic research and applied research

B. argue that there should be major federal financing of basic research

D. condemn companies that benefit from research done by other firms C. suggest that companies should not compete with each other because basic research is impaired

2. According to the author, basic research is responsible for all of the following EXCEPT A. more widespread use of computers in modern business

B. the development of better economic policy

C. the free exchange of knowledge between competing companie

D. new methods of health can

C. Academic institutions

A. Medium-sized companies

3. Which of the following is NOT included as a contributor to basic research?

4. Small companies are reluctant to contribute to basic research because

D. Companies with vast market shares

A. they have large market shares

B. its rewards are difficult to secure

C. basic research rarely produces economic benefits

D. abstract knowledge cannot be understood

5. The attitude of the business executives on the Committee for Economic Development concerning the need for federal funding of basic research was one of

A. irritated frustration

B. growing alarn

D. confident enthusiasm

put out tiny rootlets, thrust up leaves, and begin an extremely long life. birds as they eat its white berries and then wipe their bleaks on the bark of nearby branches. The sticky seeds The mistletoe plant grows on decidious research those that lose their leaves in autumn. It is spread by

survived four hundred years. For the tree, it is only a minor pest, manufacturing its own food from no harm. Virtually indestructible, it dies only when the tree dies. One mistletne ball was estimated to have chlorophyll of its leaves and using the tree simply as a source of liquid and vital minerals Insects leave mistletoe alone. Winds never blow it down. Wintry ice and parching summers cause it

6. The passage indicates that mistletoe can be found on trees that

A. produce white berries

B. have exposed roots

D. shed their leaves annually

7. According to the passage, mistletoe seeds travel from place to place by A. sticking to berries B. blowing to nearby branches

C. spreading over loose bark

D. clinging to birds' beaks

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to determine the proportion of children in a large school system who come to school without breakfast, have been vaccinated for flu, or whatever. Having a little knowledge of statistics, the superintendent would know

aftempts to make predictions using a sample of observations. For example, a school superintendent wishes great difficulties for the unaided human mind. This general class of problems characteristically involves

Inferential statistics is a formalized body of methods for solving another class of problems that present

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13. Which of the following would be the best title for the passage? 12. According to the passage, mistletoe does which of the following when it is growing on a tree? 11. According to the passage, mistletoe obtains part of its nourishment by 10. According to the passage, mistletoe may live 8. According to the passage, mistletoe grows by 9. The passage indicates that mistletoe plants are most likely to be damaged by C. An Independent Plant A. A Durable Plant C. Takes fluids from the tree A. Destroys green leaves C. removing it from tree leaves A. utilizing dirt that sticks to bark C. as long as the tree has its leaves C. extreme heat and cold C. stretching out in long vines A. disturbance by wind A. slowing climbing tree trunks D. A Plant with Many Uses D. Attracts many insect pests B. Robs the tree of chlorophyll D. absorbing it from moist air D. an unusually long time D. sprouting roots into tree bark B. producing it independently B. attaching itself to leaves B. until dry weather B. bugs and animals D. destruction of trees

statistics, which is based squarely on theories of probability. which led to modern descriptive statistics. From the influence of the father came modern inferential represented by counting, measuring, describing, tabulating, ordering, and the taking of censuses --- all of his skill at playing the odds in games of chance. The influence of the mother on the offspring, statistics, is from the same Latin root, status) and a gentlemanly gambling father who relied on mathematics to increase had a mother who was dedicated to keeping orderly records of governmental units (state and statistics come There were two widely divergent influences on the early development of statistical methods. Statistics

or reduction before they are comprehensible. Descriptive statistics is a tool for describing or summarizing or college major, or personality type. Large masses of data must generally undergo a process of summarization reducing to comprehensible form the properties of an otherwise unwieldy mass of data characterized by an underlying continuum --- or the data may represent qualitative variables, such as sex, may be either quantitative, such as measures of height, intelligence, or grade level — variables that are Descriptive statistics involves tabulating, depicting, and describing collections of data. These data

> estimated fairly accurately from a sample of as few as 100 children. Thus, the purpose of inferential only a sample of the population statistics is to predict or estimate characteristics of a population from a knowledge of the characteristics of that it is unnecessary and inefficient to question each child; the proportion for the entire district could be

- 14. With what is the passage mainly concerned?
- A. How to use descriptive statistics
- B. The development and use of statistics
- C. The drawbacks of descriptive and inferential statistic
- D. Applications of inferential statistics
- 15. According to the first paragraph, counting and describing are associated with
- C. descriptive statistics A. qualitative changes B. unknown variables
- 16. Why does the author mention the "mother" and "father" in the first paragraph? D. inferential statistic:
- A. To introduce inferential statistics
- B. To explain that there are different kinds of variables
- C. To point out that parents can teach their children statistics
- D. To present the background of staffshies in a humorous and understandable way
- 17. The word "squarely" in the last line of the test paragraph could best be replaced by which of the
- C. simply D. solidly

A. rectangularly

- 18. Which of the following is NOT given as an example of a qualitative variable? C. Type of personality A. College major B. Gender D. Height
- 19. Which of the following statements about descriptive statistics is best supported by the passage? A. It solves all numeral problems.
- B. It leads to increased variability.
- C. It changes qualitative variables to quantitative variables
- D. It simplifies unwieldy masses of data
- 20. According to the passage, what is the purpose of examining a sample of a population?
- A. To consider all the quantitative variables
- B. To compare different groups
- C. To tabulate collections of date
- D. To predict characteristics of the entire population