

Model Test Paper 27  
General Study Paper II

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TEST BOOKLET  
GENERAL STUDIES  
Paper-II

C

Time Allowed : Two Hours

Maximum Marks : 200

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INSTRUCTIONS

1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION YOU SHOULD CHECK THAT THE TEST BOOKLET *DOES NOT* HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS, ETC, IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
2. **Please note that it is the candidate's responsibility to encode and fill in the Roll Number and Test Booklet Series A, B, C or D carefully and without any omission or discrepancy at the appropriate place in the OMR Answer Sheet. Any omission/discrepancy will render the Answer Sheet liable for rejection.**
3. You have to enter your Roll Number on the Test Booklet in the Box provided alongside . *DO NOT* write *anything else* on the Test Booklet.
4. This Test Booklet contains **80** items (questions). Each item comprises four responses (answers). You will select the response which you want to mark on the Answer Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose *ONLY ONE* response for each item.
5. You have to mark all your responses *ONLY* on the separate Answer Sheet provided.
6. **All** items carry equal marks.
7. Before you proceed to mark in the Answer Sheet the response to various items in the Test Booklet, you have to fill in some particulars in the Answer Sheet as per instructions sent to you with your Admission Certificate.
8. After you have completed filling in all your responses on the Answer Sheet and the examination has concluded, you should hand over to the invigilator only the *Answer Sheet*. You are permitted to take away with you the Test Booklet.
9. Sheets for rough work are appended in the Test Booklet at the end.
10. **Penalty for wrong Answers :**  
THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY A CANDIDATE IN THE OBJECTIVE TYPE QUESTION PAPERS.  
(i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, **one-third** of the marks assigned to that question will be deducted as penalty.  
(ii) If a candidate gives more than one answer, it will be treated as a **wrong answer** even if one of the given answers happens to be correct and there will be same penalty as above to that question.  
(iii) If a question is left blank, i.e., no answer is given by the candidate, there will be **no penalty** for that question.

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Read the following passage and answer the questions based on it.

Although Louis Braille died when he was only forty-three old, he succeeded in devising a system of reading and writing for the blind which is now taught all over the world. Braille lost his sight accidentally as a child. Nevertheless, he was able to complete his education at a school for the blind in Paris and became a teacher. In the day, the few books that were available for blind people were printed in big, raised type; the letters used those of the ordinary alphabet. The reading of such books required immense effort. Not only that, writing was almost impossible, for a blind person was still restricted to an alphabet which was extraordinarily difficult to reproduce on paper. Braille's idea was to use raised dots, instead of raised letters. He evolved a system, which made use of only six dots in all. By various combinations of these dots, it not only proved possible to represent each letter in the alphabet, but punctuation marks, numbers and musical notation as well. Reading and writing for the blind have thus become enormously simplified. The sensitive fingers of a blind person can travel rapidly over the dots; and there is a small machine, something like a typewriter, which enables the blind to write quickly and clearly.

1. Louis Braille

- (a) was born blind
- (b) lost his sight when he was a child
- (c) lost his sight accidentally when he was forty-three years old
- (d) was not blind, but studied at a school for the blind

2. Before Braille's invention, the blind had difficulty in reading because

- (a) there were only printed books
- (b) there were no schools for the blind
- (c) the few books available used the raised letters of the ordinary alphabet
- (d) the books meant for the blind were heavy

3. Braille's system uses

- (a) only six dots
- (b) numbers and musical notations

- (c) ordinary alphabets in big raised type
- (d) a combination of alphabet and punctuation

4. Braille's system allows the blind

- (a) to write with ease
- (b) to read easily
- (c) to read as well as write with ease
- (d) to read easily but to write with great effort

Read the following passage and answer the questions based on it.

The Indian culture of our times is in the making. Many of us are striving to produce a blend of all cultures that seem today to be in clash with one another. No culture can live, if it attempts to be exclusive. There is no such thing as pure Aryan culture in existence in India today. Whether the Aryans were indigenous to India or were unwelcome intruders, does not interest me much. What does interest me is the fact that my remote ancestors blended with one another with the utmost freedom and we of the present generation are a result of that blend.

I do not want my house to be walled in, on all sides and my windows to be stuffed. I want the cultures of all lands to be blown about my house as freely as possible. But I refuse to be blown off my feet by any. I would have any young men and women with literary tastes to learn as much of English and other world-languages as they like, and then expect them to give the benefits of their learning to India and the world alike like a Bose, A Ray or Tagore. But I would not have a single Indian forger, neglect or be ashamed of his mother tongue, or feel that he or she cannot think or express the best thoughts in his or her own vernacular. Mine is not a religion of the prison house.

5. The author views Indian Culture as

- (a) pure Aryan culture
- (b) a clash of cultures
- (c) a continual blend of cultures
- (d) the culture of remote ancestors

6. The author thinks that

- (a) the Aryans were indigenous to India

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<p>(b) the Aryans were unwelcome intruders</p> <p>(c) the question whether the Aryans were indigenous or not is not of interests</p> <p>(d) the culture that we have inherited is the Aryan culture</p> <p>7. The author wants</p> <p>(a) The cultures of others to be kept out</p> <p>(b) The cultures of others to replace our old culture</p> <p>(c) The freedom to blend other cultures with our own</p> <p>(d) the preservation of the culture of our ancestors</p> <p>8. The author wants Indians to</p> <p>(a) learn only English, as much as they like</p> <p>(b) learn English and other world languages</p> <p>(c) learn only the mother tongue or the vernacular</p> <p>(d) learn english and other world languages in addition to the mother tongue</p> <p>Read the following passage and answer the questions based on it. One day we were becalmed among a group of small islands, most of which appeared to be uninhabited. As soon as we were in want of fresh water, the captain sent the boat ashore to bring off a cask or two. But we were mistaken in thinking there were no natives, for scarcely had we drawn near to the shore when a band of savages rushed out of the bush and assembled on the beach, brandishing their clubs and spears in a threatening manner.</p> <p>9. The captain sent the boat to shore to</p> <p>(a) look for inhabitants</p> <p>(b) find help</p> <p>(c) find a place to settle there</p> <p>(d) fetch some water</p> <p>10. The savages brandished their spears in order to</p> <p>(a) display their skill</p>	<p>(b) frighten the crew</p> <p>(c) welcome the crew to the island</p> <p>(d) tell the crew to leave</p> <p>11. The inhabitants of the islands were</p> <p>(a) man-eaters</p> <p>(b) pirates</p> <p>(c) cruel people</p> <p>(d) primitive tribes</p> <p>Read the following passage and answer the questions based on it. Nelson Mandela was appointed volunteer-in-chief of the Defence Campaign; his deputy was Maulvi Cachalia, whose father had been one of the bravest resistors alongside Gandhi in 1907. Mandela toured the Cape, Natal and the Transvaal, visiting houses in the townships, explaining the plans, sometimes talking through the night. His task was to inspire people with confidence in their ability to overcome oppression through a direct non-violent challenge to the government. As always, there were the problems of being black in small towns, no hotels or taxis for Africans, nor were there telephone lines in township homes. This meant walking miles to the location and knocking on a likely looking door. Sometimes they were welcomed by an enthusiastic stranger; sometimes rebuffed by the cautious.</p> <p>12. The purpose of Mandela's talks was to help people</p> <p>(a) court arrests</p> <p>(b) oppose oppression</p> <p>(c) join him in his campaign tours</p> <p>(d) get small town facilities</p> <p>13. It is clear from the passage that the black Africans</p> <p>(a) enjoyed small town facilities</p> <p>(b) were helped by Gandhi in their freedom struggle</p> <p>(c) Had an unfavourable government</p> <p>(d) like visiting homes in townships</p>
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Read the following passage and answer the questions based on it.

One day an army group won a land battle against the enemy. The commander feared that the enemy's powerful air force might bomb his camp that night in revenge. So he ordered all lights to be put out at 8:00 PM. At midnight the commander went round inspecting the camp. Seeing a light in a tent, he entered it. His son, an officer under him, was writing a letter. The son explained that he was writing to his mother about his brave deeds in battle. The commander told his son to add to his letter that by the time his mother received the letter he would have been shot dead for the indiscipline.

14. The commander went round the camp at midnight because he

- (a) was too tired from the day's battle to go to sleep
- (b) wished to check if his soldiers had obeyed his order
- (c) was too worried about the next day's battle
- (d) wished to check if enemies had entered his camp

15. The commander entered his son's tent because he

- (a) wished to see and talk to his son
- (b) suspected that enemies had entered his tent
- (c) wished to send a message to his wife
- (d) had to punish any soldier who disobeyed his order

16. The son was writing a letter because he

- (a) wanted to write to his mother about his father's brave deeds in battle
- (b) loved his mother so much that he had to write to her
- (c) was eager to tell his mother about his own deeds
- (d) did not care for orders since his father was the commander

Read the following passage and answer the questions based on it.

The heat-waves deepened during the following few days while Jack and I lazed about in the house and yards, wearing ragged shirts and discarded garments, because the more presentable ones were being packed by Mother. She was obviously not strong enough to cycle down to Hampshire, where Father and Jack had been one week-end, to see and rent a cottage in Ropley, near Alresford. From this prospective journey Jack had returned with half a dozen photographs taken with a plate-camera which he had made for himself, the aperture being a pinhole. This was only one of his many ingenious artifacts. I had studied the pictures, which included a church that leaned backwards, in the hope of finding that perpetually teasing certainty which we look for when about to take some adventurous step into the unknown. But Ropley remained unreal.

17. During the hot summer days the author and Jack

- (a) were taking adventurous steps into the unknown
- (b) went visiting several churches in Ropley
- (c) were busy repairing a camera
- (d) were passing their time in idleness

18. They were planning

- (a) to move out to Ropley
- (b) a trekking expedition to Alresford
- (c) to do some photography
- (d) to make some artefacts

19. The author and Jack were wearing ragged shirts and discarded garments because

- (a) they were very poor
- (b) it was summer
- (c) all their good clothes were already packed
- (d) they were lazing about

20. The plate camera

- (a) was the only artifact made by Father and Jack
- (b) was the only artifact Jack had made for himself

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<p>(c) was only one of Jack's many such artifacts</p> <p>(d) was borrowed by Jack from his friend for taking half a dozen photographs</p> <p>21. Father and Jack had been to Ropley one week-end</p> <p>(a) to take photographs</p> <p>(b) because Ropley was unreal</p> <p>(c) to take some adventurous step into the unknown</p> <p>(d) to see and rent a cottage there</p> <p>Read the following passage and answer the questions based on it</p> <p>One day a tea contractor, Mr. Sharma was working on an estate with his wife and daughter. He noticed a light movement on the edge of the jungle, so he stopped to watch for a moment. To his astonishment a large tigress appeared and came towards Mr. Sharma. The tea contractor was a very brave man. He told his wife and daughter to run towards a nearby road, while he stepped to fight the tigress with a knife.</p> <p>The tigress sprang at Mr. Sharma and knocked him down, but he managed to wound it with his knife. As a result, the tigress and Mr. Sharma knocked each other unconscious. Luckily for Mr. Sharma, a friend heard the noise of the fight and came to investigate. He found Mr. Sharma and carried him to the road. Then he stopped a car and sent the injured man to a hospital, where he eventually recovered.</p> <p>The tigress disappeared for a few days but was later hunted down and shot by a Game Ranger. The Game Ranger discovered that the tigress had injured her paw in a wire trap and had been unable to hunt wild animals in its normal manner.</p> <p>22. When did Mr. Sharma's friend go to see what was wrong?</p> <p>(a) When he saw the tigress attacking his friend</p> <p>(b) Just before the tigress was knocked down</p> <p>(c) When the friend was knocked down</p> <p>(d) When he heard something unusual</p> <p>23. When Mr. Sharma saw the tigress, he was</p>	<p>(a) surprised</p> <p>(b) afraid</p> <p>(c) nervous</p> <p>(d) angry</p> <p>24. Mr. Sharma stayed on to fight the tigress for</p> <p>(a) he wanted to try to protect his wife and daughter</p> <p>(b) he was a strong man who loved fighting</p> <p>(c) he couldn't run as quickly as his wife</p> <p>(d) the tigress caught him before he could run</p> <p>Read the following passage and answer the questions based on it</p> <p>Literature and history are twin sisters, inseparable. In the days of our own grandfathers, and for many generations before them, the basis of education was the Greek and Roman classics for the educated, and the Bible for all. In the classical authors and in the Bible, history and literature were closely interwoven, and it is that circumstance which made the old form of education so stimulating to the thought and imagination of our ancestors. To read the classical authors and to read the Bible was to read at once the history and the literature of the three greatest races of the ancient world. No doubt the classics and the Bible were read in a manner we now consider uncritical but they were read according to the best tenets of the time and formed a great humanistic education. Today the study both of the classics and of the Bible has dwindled to small proportions. What has taken their place? To some extent the vacuum has been filled by a more correct knowledge of history and a wider range of literature. But I fear that the greater part of it has been filled up with rubbish.</p> <p>25. Which of the following statements best reflects the underlying tone of the passage?</p> <p>(a) Literature and history are mutually exclusive</p> <p>(b) Literature and history are complementary to each other</p> <p>(c) The study of literature is meaningless without any knowledge of history</p> <p>(d) Literature and history are inseparably linked together in the classics and the Bible</p>
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<p>26. The author of the above passage says that in the past the basis of education for all people, irrespective of their intellectual calibre, was</p> <p>(a) Greek and Roman classics (b) The Bible (c) A correct knowledge of history (d) A wider range of literature</p> <p>27. The author of the above passage says that the classics and the Bible were read by his ancestors</p> <p>(a) methodical and with discretion (b) in a manner that broadened their view of life (c) with great emphasis on their literary values (d) without critical discrimination but in the light of their humanistic culture</p> <p>28. According to the author of the above passage, the old form of education, based on the study of the classics and of the Bible, has</p> <p>(a) succeeded in creating interest in history (b) laid the basis of human civilization (c) had a gradual decline in our time (d) been rejuvenated in the context of modern education</p> <p>29. The author of the above passage fears that the greater part of the vacuum created by lack of interest in the classics and the Bible has been filled up by</p> <p>(a) a new philosophy of life (b) a richer sense of history (c) a wider range of literature (d) worthless ideas</p> <p>Read the following passage and answer the questions based on it During his early days as editor of the popular magazine, Saturday Evening Post, George Lorimer did much of the reading of unsolicited stories. This meant endless hours of sitting at the desk, pouring over big stacks of manuscripts, trying to decide</p>	<p>which were worthy of publication and which were not. Lorimer became an expert at making these decisions.</p> <p>One day he received a huffy letter from a would-be writer who had a complaint. "Last week you rejected my story," she wrote. "I am positive you did not read it, because, as a test, I pasted together pages 14, 15 and 16. The manuscript came back with the pages still pasted. There is no question in my mind but you are a sham and a disgrace to your profession."</p> <p>Lorimer's reply was succinct : "Madam, at breakfast when I crack open an egg. I don't have to eat the whole egg to know it is bad."</p> <p>30. Lorimer did much reading of the stories</p> <p>(a) if they were the solicited ones (b) when they appeared to be bad (c) when they were from women writers (d) when they came unsolicited</p> <p>31. Lorimer was a good editor because</p> <p>(a) his reply to the angry writer was polite (b) he apologized for rejecting the story without reading it (c) he could find the worth of a story with a little effort (d) he was prompt in writing letters</p> <p>32. The lady wrote a huffy letter because</p> <p>(a) her story was rejected (b) her story was rejected unread (c) her story was rejected although it was good (d) Lorimer was biased in his decision</p> <p>33. Lorimer's reply was</p> <p>(a) irrelevant (b) rude (c) witty (d) funny</p>
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<p>34. Lorimer read the stories</p> <p>(a) because he enjoyed reading them</p> <p>(b) in order to publish them</p> <p>(c) only to find fault with them</p> <p>(d) in order to review them</p> <p>Read the following passage and answer the questions based on it As the tortoise tucks its feet and head inside the shell and will not come out even though you may break the shell into pieces, even so the character of the man who has control over his motives and organs, is unchangeably established. He controls his own inner forces, and nothing can draw them out against his will. By this continuous reflex of good thoughts and good impressions moving over the surface of the mind, the tendency to do good becomes strong, and in consequence, we are able to control the Indriyas or sense organs.</p> <p>35. The author uses the phrase 'inner forces' in this passage. Which of the following would be its most correct meaning in the context?</p> <p>(a) Emotional disturbances in man</p> <p>(b) Strength of the internal organs</p> <p>(c) Forces produced by sense organs</p> <p>(d) Reflection of the intellect</p> <p>36. Which of the following statements would illustrate the metaphor in the passage?</p> <p>(a) Man is slow moving and slow-witted</p> <p>(b) A man of character refuses to be influenced by outside compulsions against his will</p> <p>(c) Man confines himself to a life of isolation</p> <p>(d) Man cannot have a good character or strong will</p> <p>37. Which of the following statements may be assumed to reflect the central theme of the passage?</p> <p>(a) Good thoughts lead to the control of the sense organs</p> <p>(b) Control of the sense organs leads to good thoughts</p>	<p>(c) Character, though established, may be disturbed by outside forces</p> <p>(d) No man can achieve success in destroying the inner forces</p> <p>38. Which of the following statements would be most correct in explaining the metaphorical meaning of 'break the shell into pieces'?</p> <p>(a) Destruction of the human body</p> <p>(b) Breaking of the physical environment of man</p> <p>(c) Attempt to destroy man's character</p> <p>(d) Inflicting physical and mental agony on man</p> <p>39. The passage consists of two long sentences and a short one. The purpose of this style could be to suggest that</p> <p>(a) it is impossible for man to attain perfection of character</p> <p>(b) the attainment of perfect character is the result of a long process of mental discipline</p> <p>(c) the whole life process is clumsy</p> <p>(d) there is a lot of confusion in our understanding of sense organs, character etc.</p> <p>40. Is <math>x</math> negative? (1) <math>2x &gt; x^2</math> (2) <math>x &lt; 1</math></p> <p>(a) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.</p> <p>(b) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.</p> <p>(c) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.</p> <p>(d) EACH statement ALONE is sufficient.</p> <p>41. Which of the following most logically completes the argument?</p> <p>Researchers have developed a blood test to screen for early signs of prostate cancer. The test detects protein, prostate-specific antigen (PSA), that is produced by the prostate in greater amounts when cancer is present. Testing for PSA can detect prostate cancer in the earliest stages in men who show no symptoms, but the diagnosis must be</p>
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<p>confirmed by additional tests due to a high rate of false positives. Recently, however, the National Health Organization recommended against PSA screening of men over 75. This group would probably not benefit, since _____.</p> <p>(a) many men over 75 have already been diagnosed with prostate cancer</p> <p>(b) the additional tests required to confirm the diagnosis are especially taxing on men over 75</p> <p>(c) even if early signs are present, men over 75 who display no symptoms of prostate cancer are unlikely ever to do so</p> <p>(d) the fact that PSA is present in the body does not itself strongly suggest that prostate cancer is present</p> <p>42. Jack has a total of <math>b</math> hardback and paperback books in his library. If the number of hardback books is <math>\frac{1}{3}</math> the number of paperback books, and <math>\frac{3}{4}</math> of the of the paperback books are biographies, how many biographies, in terms of <math>b</math>, are in Jack's library?</p> <p>(a) <math>(\frac{1}{9})b</math></p> <p>(b) <math>(\frac{3}{20})b</math></p> <p>(c) <math>(\frac{3}{16})b</math></p> <p>(d) <math>(\frac{9}{16})b</math></p> <p>43. If <math>y</math> is an integer greater than 2, all of the following must be divisible by 4 EXCEPT</p> <p>(a) <math>2y(y+1)(y-1)</math></p> <p>(b) <math>y(2y+2)(y-3)</math></p> <p>(c) <math>y(y+3)(2y - 4)</math></p> <p>(d) <math>2y(y+4)(y - 2)</math></p> <p>44. Of the 11 movies playing at a certain cinema complex, some are action movies and some are more than two hours long. How many of the movies are action movies but are two hours long or shorter?</p> <p>(1) All of the action movies playing at the complex are also two hours long or shorter.</p> <p>(2) 4 of the movies playing at the complex are not action movies and are two hours long or shorter.</p> <p>(a) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.</p>	<p>(b) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.</p> <p>(c) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.</p> <p>(d) Statements (1) and (2) TOGETHER are NOT sufficient.</p> <p>45. From an article in the Wall Street Chronicle: Sales statistics of major electronics manufacturers with sales in the United States show that 80% of consumer electronics (such as televisions, DVD players, and computers) sold in the U.S. last year were manufactured in China.</p> <p>From an article in Consumer Results Magazine: The results from last year's survey on consumer electronics choices show that while products made in China are still very popular, more and more Americans are buying products made in Japan, Germany, and the United States. These three countries combined account for 38% of products sold in the U.S. last year.</p> <p>For both of the findings to be accurate, which of the following must be true?</p> <p>(a) More Americans who do not purchase consumer electronics prefer goods produced in China to those produced elsewhere.</p> <p>(b) Major electronics manufacturers do not limit their production plants to one country, often dividing different stages of manufacturing among plants around the world.</p> <p>(c) Most consumer electronics purchased last year that were not manufactured in China were manufactured and sold in the United States.</p> <p>(d) Major electronics manufacturers sell a higher percentage of Chinese-produced consumer devices than do smaller manufacturers.</p> <p>46. The total daily cost of operating a certain roller coaster is \$600 plus \$0.50 per person who rides the roller coaster. If on Tuesday, 1,500 people pay an average of \$2 to ride the roller coaster, how much greater are the roller coaster's revenues than its operating costs?</p> <p>(a) \$2,400</p> <p>(b) \$2,250</p> <p>(c) \$1,650</p> <p>(d) \$900</p>
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<p>47. If <math>k</math> is the product of the integers from 1 to 20, inclusive, what is the greatest integer <math>n</math> for which <math>4^n</math> is a factor of <math>k</math> ?</p> <p>(a) 5 (b) 7 (c) 9 (d) 10</p> <p>48. A certain customer at a restaurant calculates his tip by adding a constant dollar amount to another sum that is directly proportional to the total bill for the meal. If his total bill for the meal was \$24.00, what will be the dollar amount of his tip?</p> <p>(1) If the total bill for his meal had been four dollars greater, the customer would've calculated a tip of \$4.80. (2) If the total bill for his meal had been six dollars less, the customer would've calculated a tip of \$3.80.</p> <p>(a) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient. (b) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient. (c) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient (d) EACH statement ALONE is sufficient.</p> <p>49. Company President: Last year, Broad Street Restaurant Suppliers switched from pen-and-paper order forms to an online process. Unexpectedly, this resulted in a decrease in orders placed by restaurants. Thus, it is likely that many restaurateurs lack the computer skills required by the online process and were more comfortable with the old forms.</p> <p>Vice-President of Marketing: Not so. Statistics show a widespread decline in sales across the restaurant supply industry for last year.</p> <p>Which of the following, if true, most undermines the Vice President of Marketing's response?</p> <p>(a) The decline in sales across the restaurant supply industry affected the segment of the market that represents the largest part of Broad Street's business. (b) The online process offered by Broad Street allows restaurateurs to better customize their purchases and specify more precise delivery schedules.</p>	<p>(c) Broad Street is known throughout the restaurant supply industry as a leader in customer service.</p> <p>(d) Declines in sales across the restaurant supply industry usually stem from smaller average orders placed by each restaurant, but one-quarter of Broad Street's previous customers placed no order at all last year.</p> <p>50. Which of the following is equivalent to the pair of inequalities <math>y &gt; -3x</math> and <math>-z &gt; 2x</math> ?</p> <p>(a) <math>-2y &lt; 6x &lt; -3z</math> (b) <math>2y &lt; -6x &lt; -3z</math> (c) <math>-3x &lt; y &lt; -z</math> (d) <math>3x &lt; z &lt; -y</math></p> <p>51. If <math>5,400n</math> is the square of an integer, what is the smallest possible integer value of <math>n</math>?</p> <p>(a) 2 (b) 3 (c) 5 (d) 6</p> <p>52. Is the range of the integers 8, 2, <math>x</math>, 4, 5, and <math>y</math> greater than 9 ?</p> <p>(1) <math>y &gt; x + 3</math> (2) <math>y &gt; x &gt; 7</math></p> <p>(a) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient. (b) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient. (c) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient. (d) EACH statement ALONE is sufficient.</p> <p>53. Sajitha: Sales of Lodgewood's specialty microbrew beers increased steadily from 2000 to 2002. The rise in sales was probably due in large part to the new label and ads developed by their advertising firm, which played up the microbrewery's local history.</p> <p>Kyle: There must be another explanation: The data you cite show the rise in sales started in early 2000. Yet the company's new advertising campaign did not go into effect until September of that year.</p>
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<p>Which of the following, if true, would most seriously weaken the force of the objection that Kyle presents to Sajitha's explanation?</p> <p>(a) Beer buyers surveyed in 2001 cited the advertising campaign as the primary reason they became aware of Lodgewood's offerings.</p> <p>(b) A nationwide beer distributor stopped placing two other specialty microbrew brands in stores in 2000.</p> <p>(c) Lodgewood's new label was the main focus of its advertising campaign.</p> <p>(d) Lodgewood's new label appeared on their beer bottles in late 1999.</p> <p>54. The sum of the first 50 positive odd integers is 2,500. What is the sum of the odd integers from 101 to 199, inclusive?</p> <p>(a) 4,950</p> <p>(b) 5,000</p> <p>(c) 7,450</p> <p>(d) 7,500</p> <p>55. Monika ran <math>x</math> percent of the total distance of a race at an average speed of 6 miles per hour and the rest of the distance at an average speed of 8 miles per hour. What was Monika's average speed, in terms of <math>x</math>, for the entire race?</p> <p>(a) <math>(x - 24)/3</math></p> <p>(b) <math>(x + 8)/6</math></p> <p>(c) <math>(48 - x)/5</math></p> <p>(d) <math>2400/(x + 300)</math></p> <p>56. In the <math>xy</math>-plane, does the point <math>(6, -2)</math> lie on line <math>k</math>?</p> <p>(1) The <math>x</math>-intercept of line <math>k</math> is 4. (2) The <math>y</math>-intercept of line <math>k</math> is 4.</p> <p>(a) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.</p> <p>(b) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.</p> <p>(c) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.</p>	<p>(d) EACH statement ALONE is sufficient.</p> <p>57. Marketing strategists at a major video retailer are discussing ways to increase revenues by boosting mid-week DVD rentals, which generally fall far below weekend rentals. One plan to accomplish this is to extend the return date for DVDs rented between Monday and Wednesday so that customers may keep them until Friday. Since more customers will return to the store on Fridays, they will be also be more likely to rent again for the weekend.</p> <p>Which of the following, if true, would indicate the most serious weakness in the plan above?</p> <p>(a) The number of clerks currently employed by the video retailer is not sufficient to handle a significant increase in business on Monday, Tuesday, and Wednesday.</p> <p>(b) Customers who are lured by extended return dates for mid-week DVD rentals are much less likely than the average customer to rent a DVD on Friday.</p> <p>(c) Even if the video retailer increases its mid-week rentals, some customers will continue to rent only on Fridays.</p> <p>(d) The video retailer currently offers two-day rentals, so the plan would not provide an additional inducement to rent DVDs on Wednesday.</p> <p>58. If <math>xy = mx</math> and <math>xym</math> is not equal to 0, which of the following must be true?</p> <p>(a) <math>x &lt; y</math></p> <p>(b) <math>m - x = 0</math></p> <p>(c) <math>m - y = 0</math></p> <p>(d) <math>mx &gt; 0</math></p> <p>59. The host of a party predicts that 40 percent of the people she invites will not attend her party. According to this prediction, how many guests should she invite so that <math>x</math> people attend her party?</p> <p>(a) <math>(6/5)x</math></p> <p>(b) <math>(4/3)x</math></p> <p>(c) <math>(7/5)x</math></p> <p>(d) <math>(5/3)x</math></p>
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<p>60. The number N is <math>4,5H2</math>, the ten's digit being represented by H. What is the value of H ? (1) N is divisible by 3. (2) N is divisible by 9.</p> <p>(a) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.</p> <p>(b) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.</p> <p>(c) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.</p> <p>(d) EACH statement ALONE is sufficient.</p> <p>61. EnergyMill Company Advertisement:</p> <p>An Environmental Impact Coalition report shows that wind power produces the fewest pollutants among all green energy alternatives. This shows that EnergyMill wind turbines are the best choice for powering new developments in rural areas.</p> <p>Which of the following, if true, most seriously weakens the argument in the advertisement?</p> <p>(a) An earlier Environmental Impact Coalition report showed that solar power produces fewer pollutants than does wind power.</p> <p>(b) In the last five years, the government has invested more in wind power than in any other form of green energy.</p> <p>(c) The dispersion of homes in rural areas makes wind power several times more expensive than conventional energy sources.</p> <p>(d) The difference between the number of pollutants generated by wind power and conventional power sources is quite pronounced.</p> <p>62. If n is an odd integer, which of the following must also be an odd integer?</p> <p>(a) <math>2n</math></p> <p>(b) <math>2n^2</math></p> <p>(c) <math>n^2 + 2n</math></p> <p>(d) <math>n^2 + 3n</math></p> <p>63. The probability is <math>\frac{1}{2}</math> that a certain coin will turn up heads on any given toss. If the coin is to be tossed four times, what is the probability that on at least one of the tosses the coin will turn up tails?</p>	<p>(a) <math>\frac{1}{16}</math></p> <p>(b) <math>\frac{1}{8}</math></p> <p>(c) <math>\frac{1}{2}</math></p> <p>(d) <math>\frac{15}{16}</math></p> <p>64. Is the product of a certain pair of integers odd? (1) At least one of the integers is even. (2) The sum of the integers is odd.</p> <p>(a) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.</p> <p>(b) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.</p> <p>(c) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.</p> <p>(d) EACH statement ALONE is sufficient.</p> <p>65. As part of a plan to overhaul a car company's lagging sales due to its image as environmentally irresponsible, consultants recently proposed the release of a new car line. The new line of small, high-mileage and hybrid vehicles would appeal to a set of consumers who would never have previously considered buying from the company. In that way, the company could easily retain the market for its traditional vehicles while tapping into a new market niche and expanding its revenue base.</p> <p>Which of the following, if true, would most strongly support the consultants' proposal?</p> <p>(a) The majority of cars currently manufactured by the company are large and are not known for their fuel efficiency.</p> <p>(b) A reliable survey of the company's previous customers showed that most of them would more strongly consider buying from the company again if it offered hybrid vehicles.</p> <p>(c) Car sales for all companies have lagged in the last two years, but are expected to increase in the next six months.</p> <p>(d) A new focus on small, high-mileage, and hybrid vehicles would require research and development investment greater than the company's CEO has made in his tenure to date.</p> <p>66. power windows: 60% anti-lock brakes: 25% CD player: 40%</p>
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<p>The table above shows the number of vehicles at Bill's car dealership that have certain features. No vehicle has all three features, but 10% have power windows and anti-lock brakes, 15% have anti-lock brakes and a CD player, and 22% have power windows and a CD player. What percent of the vehicles at Bill's car dealership have a CD player but no power windows or anti-lock brakes?</p> <p>(a) 25 (b) 18 (c) 11 (d) 3</p> <p>67. Canister C is <math>\frac{1}{2}</math> full of water and canister D, which has twice the capacity of canister C, is <math>\frac{1}{3}</math> full of water. If the water in canister D is poured in canister C until canister C is completely full of water, canister D will still contain what fraction of its capacity of water?</p> <p>(a) 0 (b) <math>\frac{1}{36}</math> (c) <math>\frac{1}{12}</math> (d) <math>\frac{1}{6}</math></p> <p>68. If <math>z = 0.rstu</math>, where <math>r, s, t,</math> and <math>u</math> each represent a nonzero digit of <math>z</math>, what is the value of <math>z</math> ? (1) <math>rs &gt; tu</math> (2) <math>r = 6s = 2t = 3u</math></p> <p>(a) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient. (b) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient. (c) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient. (d) EACH statement ALONE is sufficient.</p> <p>69. Within Central City, the high-end retailer RiverRock makes most of its sales at its flagship store in Central Plaza, a major commuter center in the business district. Nevertheless, marketing strategists at RiverRock propose increasing revenues by closing the lease on this high-rent location and focusing on its smaller satellite stores throughout the region.</p>	<p>Which of the following, if true, casts most doubt on the viability of the plan by RiverRock's marketing strategists to focus on smaller satellite stores?</p> <p>(a) Most of the merchandise available at RiverRock's flagship store is also available at each of its satellite stores. (b) The frequency with which consumers who live near Central Plaza shop at RiverRock is roughly equal to that of consumers who live in the suburbs, where most of the satellite stores are located. (c) When RiverRock opened its flagship store fifteen years ago, it closed two smaller stores in the Central City area. (d) The sales of the flagship RiverRock store allow the company to devote large sums to television advertising in Central City, which has a significant positive impact on satellite store sales.</p> <p>70. If the two-digit integers A and B are positive and have the same digits, but in reverse order, which of the following could be the sum of A and B ?</p> <p>(a) 108 (b) 120 (c) 132 (d) 144</p> <p>71. If 60 percent of the DVDs in Katie's collection are American-made movies, 35 percent of the DVDs in her collection are comedies, and 30 percent are neither American-made nor comedies, what percent of the DVDs in Katie's collection are both American-made and comedies?</p> <p>(a) 15 (b) 25 (c) 40 (d) 60</p> <p>72. Is the perimeter of triangle T greater than the perimeter of square S ? (1) T is an isosceles right triangle. (2) The length of the longest side of T is equal to the length of a diagonal of S.</p>
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<p>(a) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.</p> <p>(b) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.</p> <p>(c) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.</p> <p>(d) EACH statement ALONE is sufficient.</p> <p>73. Rice is a staple crop in the country of Bhupet, and enough is produced each year to both meet the country's demand and be a major export. This season, however, rice yields fell 20% due to infestation by rice blast fungus. Because rice commands a somewhat higher price on the export market than the domestic market, economists warn that the Bhupet people will not be able to buy the rice they need. In order to help the local economy, therefore, the Prime Minister of Bhupet has proposed distributing state-subsidized rice coupons to each citizen.</p> <p>Which of the following, if true, most strongly calls into question the likelihood that implementation of the Prime Minister's proposal will have the desired consequence?</p> <p>(a) Even if the rice coupons do not allow citizens of Bhupet to consume as much rice as they do in a typical year, the existence of the coupons will help maintain general confidence in the economy.</p> <p>(b) Rice distributors in Bhupet are willing to sell rice to the government at a price below the domestic market price.</p> <p>(c) Rice is a fundamental component in the diet of most citizens of Bhupet, and it is their main source of vitamin B1.</p> <p>(d) The exportation of rice makes up 75% of Bhupet's foreign trade and is the direct or indirect source of employment for 10% of the adult population.</p> <p>74. If the function <math>f(x) = k(x - k)</math> and <math>k</math> is a constant, what is the value of <math>f(4) - f(3)</math>, in terms of <math>k</math>?</p> <p>(a) 1</p> <p>(b) <math>k</math></p> <p>(c) <math>7k - 1</math></p> <p>(d) <math>k^2 + k</math></p>	<p>75. If <math>x^2 - 9 = 0</math> and <math>x &lt; 0</math>, which of the following must be equal to 0 ?</p> <p>(a) <math>x^2 - 9x</math></p> <p>(b) <math>x^2 - 9x + 20</math></p> <p>(c) <math>x^2 - 2x + 3</math></p> <p>(d) <math>x^2 + 2x - 3</math></p> <p>76. What is the value of <math>xy</math> ?</p> <p>(1) <math>x + y = 10</math></p> <p>(2) <math>x - y = 4</math></p> <p>(a) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.</p> <p>(b) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.</p> <p>(c) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.</p> <p>(d) EACH statement ALONE is sufficient.</p> <p>77. From 1970 to 1990, sea otters made up a steadily decreasing percentage of the marine life population in North America. The increasingly widespread effects of pollution and habitat destruction were responsible for this decrease. However, although pollution was a more frequent target of environmental legislation, it was found that pollution in North America increased by a greater percentage than did the rate of habitat destruction.</p> <p>Which of the following, if true, most helps to account for the finding?</p> <p>(a) Environmental legislation limiting industrial pollution was much more financial onerous on North American firms than legislation protecting marine habitats.</p> <p>(b) The decreasing percentage of sea otters among the marine population had a positive effect on the species that sea otters typically prey on.</p> <p>(c) Most of the habitats likely to be destroyed by human activity had already been compromised for marine life by 1970.</p> <p>(d) Habitat destruction was a more frequent target of environmental legislation than pollution in the decade preceding 1960.</p>
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78. If  $x = 1/2$ , then  $x^{-1} + x^{-2} + x^{-3} + x^{-4} =$

- (a)  $1/32$
- (b)  $15/16$
- (c) 1
- (d) 30

79. Three years from now, Dathan will be three times as old as Ellen and Ellen will be six years younger than Famke. If Dathan's age is three years less than twice Famke's age, how old is Famke?

- (a) 9
- (b) 15
- (c) 21
- (d) 27

80. What is the value of  $b$  ?

- (1)  $b - x = x - b$
- (2)  $b - x = 0$

- (a) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.
- (b) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.
- (c) BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.
- (d) Statements (1) and (2) TOGETHER are NOT sufficient.

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Answer Sheet

	A	B	C	D		A	B	C	D		A	B	C	D		A	B	C	D
1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	21	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	41	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	61	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	22	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	42	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	62	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	23	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	43	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	63	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	24	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	44	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	64	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	25	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	45	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	65	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	26	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	46	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	66	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	27	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	47	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	67	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	28	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	48	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	68	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	29	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	49	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	69	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	30	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	50	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	70	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
11	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	31	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	51	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	71	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
12	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	32	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	52	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	72	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
13	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	33	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	53	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	73	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
14	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	34	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	54	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	74	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
15	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	35	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	55	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	75	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
16	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	36	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	56	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	76	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
17	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	37	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	57	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	77	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
18	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	38	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	58	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	78	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
19	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	39	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	59	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	79	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
20	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	40	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	60	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	80	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>