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https://www.100test.com/kao_ti2020/176/2021_2022__E9_9B_85_E6_80_9D_E9_98_85_E8_c6_176213.htm Right and left-handedness

in humans Why do humans, virtually alone among all animal species, display a distinct left or right handedness? Not even our closest relatives among the apes possess such decided lateral asymmetry, as psychologists call it. Yet about 90 per cent of every human population that has ever lived appears to have been right-handed. Professor Bryan Turner at Deakin University has studied the research literature on left-handedness and found that handedness goes with sidedness. So nine out of ten people are right-handed and eight are right-footed. He noted that this distinctive asymmetry in the human population is itself systematic. Humans think in categories: black and white, up and down, left and right. Its a system of signs that enables us to categorise phenomena that are essentially ambiguous. Research has shown that there is genetic or inherited element to handedness. But while left-handedness tends to run in families, neither left nor right handers will automatically produce off-spring with the same handedness. in fact about 6 per cent of children with two right-handed parents will be left-handed. However, among two left-handed parents, perhaps 40 per cent of the children will also be left-handed. With one right and one left-handed parent, 15 to 20 per cent of the offspring will be lefthanded. Even among identical twins who have exactly the same genes, one in six pairs will differ in their handedness. What then

makes people left-handed if it is not simply genetic? Other factors must be at work and researchers have turned to the brain for clues. In the 1860s the French surgeon and anthropologist, Dr Paul Broca, made the remarkable finding that patients who had lost their powers of speech as a result of a stroke (a blood clot in the brain) had paralysis of the right half of their body. He noted that since the left hemisphere of the brain controls the right half of the body, and vice versa, the brain damage must have been in the brain's left hemisphere. Psychologists now believe that among right-handed people, probably 95 per cent have their language centre in the left hemisphere, while 5 per cent have right-sided language. Left-handers, however, do not show the reverse pattern but instead a majority also. Some 30 per cent have right hemisphere language. Dr Brinkman, a brain researcher at the Australian National University in Canberra, has suggested that evolution of speech went with right-handed preference. According to Brinkman, as the brain evolved, one side became specialised for fine control of movement (necessary for producing speech) and along with this evolution came righthand preference. According to Brinkman, most left-handers have left hemisphere dominance but also some capacity in the right hemisphere. She has observed that if a left-handed person is brain-damaged in the left hemisphere, the recovery of speech is quite often better and this is explained by the fact that left-handers have a more bilateral speech function. In her studies of macaque monkeys, Brinkman has noticed that primates (monkeys) seem to learn a hand preference from their mother in the first year of life but this could be one hand or the other. In humans,

however, the specialisation in function of the two hemispheres results in anatomical differences. areas that are involved with the production of speech are usually larger on the left side than on the right. Since monkeys have not acquired the art of speech, one would not expect to see such a variation but Brinkman claims to have discovered a trend in monkeys towards the asymmetry that is evident in the human brain. Two American researchers, Geschwind and Galaburda, studied the brains of human embryos and discovered that the left-right asymmetry exists before birth. But as the brain develops, a number of things can affect it. Every brain is initially female in its organisation and it only becomes a male brain when the male foetus begins to secrete hormones. Geschwind and Galaburda knew that different parts of the brain mature at different rates. the right hemisphere develops first, then the left. Moreover, a girls brain develops somewhat faster than that of a boy. So, if something happens to the brains development during pregnancy, it is more likely to be affected in a male and the hemisphere more likely to be involved is the left. The brain may become less lateralised and this in turn could result in left-handedness and the development of certain superior skills that have their origins in the left hemisphere such as logic, rationality and abstraction. It should be no surprise then that among mathematicians and architects, left-handers tend to be more common and there are more left-handed males than females. The results of this research may be some consolation to left-handers who have for centuries lived in a world designed to suit right-handed people. However, what is alarming, according to Mr. Charles

Moore, a writer and journalist, is the way the word 'right reinforces its own virtue. Subliminally he says, language tells people to think that anything on the right can be trusted while anything on the left is dangerous or even sinister. We speak of left-handed compliments and according to Moore, 'it is no coincidence that left-hand, often develop a stammer as they are robbed of their freedom of speech. However, as more research is undertaken on the causes of left handedness, attitudes towards left-handed people are gradually changing for the better. Indeed when the champion tennis player

Indeed when the champion tennis player Ivan Lendl was asked what the single thing improve his game, he said he would like to become a left-hander. Geoff Maslen

Questions 1-7 Use the information in the text to match the people (listed A-E) with the opinions (listed 1-7) below. Write the appropriate letter (A-E) in boxes 1-7 on your answer sheet. Some people match more than one opinion.

A Dr Broca
 B Dr Brinkman
 C Geschwind and Galaburda
 D Charles Moore
 E Professor Turner

Example Answer

Monkeys do not show a species specific preference for B
 Left or right-handedness.
 1 Human beings started to show a preference for right-handedness when they first developed language.
 2 Society is prejudiced against left-handed people.
 3 Boys are more likely to be left-handed.
 4 After a stroke, left-handed people recover their speech more quickly than right-handed people.
 5 People who suffer strokes on the left side of the brain usually lose their power of speech.
 6 The two sides of the brain develop different functions before birth.
 7 Asymmetry is a common feature of the human body.

Question 8-10 Using the

information in the passage, complete the table below. Write your answer in boxes 8-10 on your answer sheet.

Percentage of children	One parent left-handed	One parent right-handed ... (8)
...	Both parents left-handed ... (9)	Both parents right-handed ... (10)

... (10) ... Question 11-12 Choose the appropriate letters A-D and write them in boxes 11 and 12 on your answer sheet.

11 A study of monkeys has shown that A monkeys are not usually right-handed. B monkeys display a capacity for speech. C monkey brains are smaller than human brains. D monkey brains are asymmetric.

12 According to the writer, left-handed people. A will often develop a stammer. B have undergone hardship for years. C are untrustworthy. D are good tennis players.

Answer Keys Passage 11-7. BDCBACE 8. 15-20% 9. 40% 10. 6% 11. D 12. B

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