**Relationship between handedness and hemispheric dominance**

**Questionnaire**

[Adapted from:Hackett, C. (2007). *Psychology: Self, others and society: Workbook stage 1: Units 1A & 1B*.Melbourne: Pearson Education Australia, pp. 122–123]

Using the questionnaire below, please record your response by ticking the box for each question that describes you best.

**Participant’s code: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Gender: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

List your **three** best school subjects, i.e. those in which you achieve your best results:

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |
| --- | --- | --- | --- |
| **Questions** | **Left hand** | **Right hand** | **Either hand** |
| 1. Which hand do you use to write with? |  |  |  |
| 1. Which hand do you throw a ball with? |  |  |  |
| 1. Which hand do you pick up your mobile phone with? |  |  |  |
| 1. Which hand do you hold a tennis racket or a cricket bat with? |  |  |  |
| 1. Which hand holds a knife when you cut things? |  |  |  |
| 1. Which hand do you hold your toothbrush in? |  |  |  |
| 1. Which hand holds an eraser when you want to rub a mistake out? |  |  |  |
| 1. Which hand removes the top card when you deal from a deck of cards? |  |  |  |
| 1. What hand do you use to text with on your mobile phone? |  |  |  |
| 1. What hand do you take your change out of your purse or wallet with? |  |  |  |
| 1. Which hand do you hold a ruler or a rolled up piece of paper with? |  |  |  |
| 1. Which hand do you pull a chair out with? |  |  |  |
| **TOTAL** |  |  |  |

[Questionnaire adapted from: Coren, S. (1992). *The left-hander syndrome: The causes and consequences of left-handedness*.   
New York: Free Press]

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**Scoring sheet**

[Adapted from:Hackett, C. (2007). *Psychology: Self, others and society: Workbook stage 1: Units 1A & 1B*.Melbourne: Pearson Education Australia, pp. 122–123]

**Scoring handedness**

To work out your handedness score:

* Count the number of left, right and either hand responses.
* Multiply the number of right responses by 3. This number is your R SCORE.
* Multiply the number of either responses by 2. This number is your E SCORE.
* The number of left responses remains unchanged. This number is your L SCORE.
* Add your R, E and L scores. This is your handedness score.

|  |  |  |  |
| --- | --- | --- | --- |
| **Right responses x 3 (R)** | **Either responses x 2 (E)** | **Number of left responses (L)** | **TOTAL SCORE**  **(R+E+L)** |
|  |  |  |  |

The scoring key:

|  |  |  |  |
| --- | --- | --- | --- |
| **Score** | **Handedness** | **Score** | **Handedness** |
| 33–36 | strongly right handed | 20–23 | mildly left handed |
| 29–32 | moderately right handed | 16–19 | moderately left handed |
| 25–28 | mildly right handed | 12–15 | strongly left handed |
| 24 | ambidextrous |  |  |

**Your score:\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Your handedness:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Hemispheric dominance**

To work out your hemispheric dominance, use the table below to help you.

Your hemispheric dominance (left- or right-brained) will be based on having two or three subjects that would be identified as involving the specialised cognitive functions of the left or right brain mentioned below.

For example, if your subject choices were maths (L), music (R) and biology (L), you would have a left hemispheric dominance.

|  |  |
| --- | --- |
| **Specialised cognitive functions of the left and right hemispheres** | |
| **Left hemisphere** | **Right hemisphere** |
| Reading | Musical ability |
| Writing | Spatial ability: design, movement, dance |
| Analytical thinking | Emotional expression |
| Sequential thinking | Detection of emotion |
| Logical reasoning |  |
| Mathematics |  |

[Table adapted from:van Iersel, H. et al. (2005). *Nelson Psychology: VCE Units 3 and 4*.Melbourne: Nelson Australia, p. 45]

|  |  |
| --- | --- |
| **Best subjects** | **Left- or right-brained?** |
| 1. |  |
| 2. |  |
| 3. |  |

**Your hemispheric dominance: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

In the table below, record and collate the responses given by each participant on the questionnaire.

Class results Year 11 Psychology 2021 Southern River College

|  |  |  |  |
| --- | --- | --- | --- |
| **Participant Number** | **Gender** | **Handedness** | **Hemispheric Dominance** |
| 1 |  | Strongly right handed | left |
| 2 |  | ambidextrous | right |
| 3 |  | mildly right handed | left |
| 4 |  | moderately right handed | left |
| 5 |  | moderately right handed | left |
| 6 |  | mildly left handed | right |
| 7 |  | mildly right handed | left |
| 8 |  | strongly right handed | left |
| 9 |  | strongly right handed | left |
| 10 |  | moderately right handed | right |
| 11 |  | mildly right handed | right |
| 12 |  | strongly right handed | right |
| 13 |  | strongly right handed | left |
| 14 |  | moderately right handed | right |
| 15 |  |  |  |
| 16 |  |  |  |
| 17 |  |  |  |
| 18 |  |  |  |
| 19 |  |  |  |
| 20 |  |  |  |