

**Bahagian A/ Section A**  
[20 markah/ marks]

**Arahan:** Jawab semua soalan dalam bahagian ini.

**Instruction:** Answer all questions in this section.

- 1 Jadual 1 menunjukkan kadar denyutan nadi bagi dua orang murid lelaki berumur 15 tahun selepas melakukan aktiviti yang berbeza.

Table 1 shows the pulse rate for two 15-year old boys after doing different activities.

| Murid/Student      | Kadar denyutan nadi seminit/ Pulse rate per minute |                   |
|--------------------|----------------------------------------------------|-------------------|
|                    | Berehat/ At rest                                   | Berjalan/ Walking |
| Murid 1/ Student 1 | 68                                                 | 86                |
| Murid 2/ Student 2 | 70                                                 | 88                |

Jadual 1/ Table 1

- (a) Nyatakan pemboleh ubah-pemboleh ubah dalam eksperimen ini.

State the variables in this experiment.

- (i) Pemboleh ubah dimanipulasikan/ Manipulated variable:

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- (ii) Pemboleh ubah bergerak balas/ Responding variable:

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- (iii) Pemboleh ubah dimalarkan/ Constant variable:

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[3 markah/ marks]

- (b) Nyatakan hubungan antara kadar denyutan nadi dan jenis aktiviti fizikal. **KBAT Menilai**

State the relationship between pulse rate and type of physical activity.

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[1 markah/ mark]

- (c) Ramalkan bacaan kadar denyutan nadi jika murid 2 melakukan aktiviti melompat. **KBAT Menganalisis**

Predict the pulse rate reading if student 2 do hopping activity.

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[1 markah/ mark]