

Answer ALL of the following:

1. This hypothetical data [Dataset name: pedsql_q_validation.dta] was condensed from a study conducted to validate a health-related quality of life questionnaire for children and adolescents which was translated into Bahasa Malaysia. A total of 260 children and adolescents were invited to participate in the questionnaire validation study. The sample consisted of 260 respondents (67% female, 33% male) ranging in age from 10 to 18 years (mean=14yrs). Details of the variables are provided in Appendix 1. The objective of this analysis is to validate the Bahasa Malaysia version of PedsQL questionnaire.
 - (a) Describe your statistical analysis plan. (10 marks)
 - (b) Analyse your data based on your statistical plan in (a) and submit the codes and outputs for your analysis. (15 marks)
 - (c) Report your results based on APA style. (10 marks)
 - (d) Discuss your results with relevant references.
(Word limit maximum 1000 excluding references) (15 marks)

CODEBOOK pedsql_validation.dta

Variable	Position	Label
id	1	<none>
school_type	2	Type of school
dob	3	Date of birth
age	4	<none>
sex	5	Sex
b_1	6	1- Adakah sukar untuk saya berjalan lebih daripada satu blok (bangunan)
b_2	7	2- Adakah sukar untuk saya berlari
b_3	8	3- Adakah sukar untuk saya menyertai aktiviti sukan atau bersenam
b_4	9	4- Adalah sukar untuk saya mengangkat benda berat
b_5	10	5- Adalah sukar untuk saya mandi sendiri
b_6	11	6- Adalah sukar untuk saya membuat kerja harian di rumah
b_7	12	7- Saya mengalami sakit atau sengal
b_8	13	8- Saya mempunyai tahap tenaga yang rendah
b_9	14	9- Saya berasa takut atau gerun
b_10	15	10- Saya berasa sedih atau murung
b_11	16	11- Saya berasa marah
b_12	17	12- Saya mengalami gangguan tidur
b_13	18	13- Saya berasa bimbang
b_14	19	14- Saya mempunyai masalah dalam perhubungan dengan kanak-kanak lain
b_15	20	15- Kanak-kanak lain tidak mahu menjadi kawan saya
b_16	21	16- Kanak-kanak lain mengejek saya
b_17	22	17- Saya tidak boleh melakukan perkara yang kanak-kanak lain yang sebaya boleh I
b_18	23	18- Adalah sukar untuk saya mengikuti rentak bila saya bermain dengan kanak-kana
b_19	24	19- Adalah sukar untuk saya memberi perhatian dalam kelas
b_20	25	20- Saya jadi pelupa
b_21	26	21- Saya mempunyai masalah menyiapkan kerja sekolah
b_22	27	22- Saya tidak ke sekolah kerana tidak sihat
b_23	28	23- Saya tidak ke sekolah kerana ke hospital atau berjumpa doktor

Variable Values

Value		Label
school_type	1	Primary
	2	Secondary
sex	1	Male
	2	Female
b_1 to b_23	1	0-Never
	2	1-Almost never
	3	2-Sometimes
	4	3-Often
	5	4-Almost always

In the past **ONE month**, how much of a **problem** has this been for you ...

ABOUT MY HEALTH AND ACTIVITIES (problems with...)	Never	Almost Never	Some- times	Often	Almost Always
1. It is hard for me to walk more than one block	0	1	2	3	4
2. It is hard for me to run	0	1	2	3	4
3. It is hard for me to do sports activity or exercise	0	1	2	3	4
4. It is hard for me to lift something heavy	0	1	2	3	4
5. It is hard for me to take a bath or shower by myself	0	1	2	3	4
6. It is hard for me to do chores around the house	0	1	2	3	4
7. I hurt or ache	0	1	2	3	4
8. I have low energy	0	1	2	3	4

ABOUT MY FEELINGS (problems with...)	Never	Almost Never	Some- times	Often	Almost Always
1. I feel afraid or scared	0	1	2	3	4
2. I feel sad or blue	0	1	2	3	4
3. I feel angry	0	1	2	3	4
4. I have trouble sleeping	0	1	2	3	4
5. I worry about what will happen to me	0	1	2	3	4

HOW I GET ALONG WITH OTHERS (problems with...)	Never	Almost Never	Some- times	Often	Almost Always
1. I have trouble getting along with other kids	0	1	2	3	4
2. Other kids do not want to be my friend	0	1	2	3	4
3. Other kids tease me	0	1	2	3	4
4. I cannot do things that other kids my age can do	0	1	2	3	4
5. It is hard to keep up when I play with other kids	0	1	2	3	4

ABOUT SCHOOL (problems with...)	Never	Almost Never	Some- times	Often	Almost Always
1. It is hard to pay attention in class	0	1	2	3	4
2. I forget things	0	1	2	3	4
3. I have trouble keeping up with my schoolwork	0	1	2	3	4
4. I miss school because of not feeling well	0	1	2	3	4
5. I miss school to go to the doctor or hospital	0	1	2	3	4