The 25 questions in the GCQ have been derived from children's own views of what made their lives good or bad. The development of the measure began in 1993 with approaches to children to as- certain what they considered affected their quality of life. Eighty children aged 6, 11 and 13 years were approached in schools and asked to identify what made their lives good or bad, all children were asked to identify both positive and negative influences. A large proportion of the answers directly related to interpersonal relationships and how the children felt they were perceived by important others. The GCQ includes a general satisfaction question, ``how much of the time they feel happy with their life".

The format for the questionnaire has been given great consideration. Children are reassured that there are no right or wrong answers via a story format in the measure, whereby five children chat about different things. In the sample question, for example, all the children are talking about how often they like to watch television. One child always likes watching television, one child often likes watching television, one child sometimes likes watching television, one child hardly ever likes watching television and the other child never likes watching television. No child is indicated to be better than the others are and all have different views. As well as being a non-threatening introduction to the measure, this initial question introduces the child to the five-point frequency scale. The child completing the questionnaire is asked to relate to the responses of the children in the story, first ticking the child they feel is most like themselves, then later ticking the child they would most like to be. These provide the perceived-self score and the preferred-self score. As quality of life can be assessed by measuring satisfaction with how life is compared to how one might want or expect it to be [3, 10, 11] the discrepancy between the two scores for each question provides the QOL score. For ease of interpretation and discussion, the discrepancy totals are transformed in order for high scores to indicate a high quality of life.

A Likert scale is used with five options (always, often, sometimes, hardly ever, never) and all questions are phrased to fit these responses. A Likert scale was considered to be simple enough for the children to understand and previous research has shown that children can use a Likert scale meaningfully if shown how to do so [2, 14]. The initial sample question also allows the researcher to ascertain whether the child has understood the frequency continuum. The story format makes the measure

more child-friendly, but the layout is also visually attractive to the children. Instead of tick boxes there are `tick girls' or `tick boys' which also allows the measure to read ``Tick the boy most like you". As the GCQ is sex-specific, five boys or five girls talking, it simplifies the language.

The children first complete all 25 questions relating to the child they feel is most like themselves, they are then instructed to turn to a further answer section and answer the questions relating to the child they would most like to be. The layout of the form ensures that this is understood by completely separating the first 25 tick boxes (for the questions relating to the child they feel is most like themselves) from the second 25 tick boxes (for the questions relating to the child they would most like to be). The researcher reads out the questions when required. To assess whether a child completing the measure can carry out the task meaningfully the sample question outlined in the section on the GCQ measure, is at the beginning of the story.

- 1. How often they have fun
- 2. How often they are happy and smiling
- 3. How often they worry about things*
- 4. How often they spend time with friends
- 5. How often they have enough friends
- 6. How much of the time other people understood how they felt
- 7. How much of the time they are picked on*
- 8. How often they help others
- 9. How often they hurt other people*
- 10. How often they get upset*
- 11. How often they feel bored*
- 12. How often they can go to someone if they have a problem
- 13. How much of the time they like their parents
- 14. How much of the time they think their parents love them
- 15. How often they are told off (at home)*
- 16. How often they are allowed to choose for themselves
- 17. How much of the time they feel happy with their life
- 18. How often they are really ill*
- 19. How often this stops them from doing things that they want to do*
- 20. How happy they are about the way they look

- 21. How often they feel different from other children*
- 22. How often they try hard with their work
- 23. How often they are told off by the teacher*
- 24. How often they feel more clever than other children
- 25. How often they are good at sport
- * Scoring reversed for these items.

From September 2007 the measure is available from the publisher Hogrefe. The measure also comes with a full manual outlining detailed administration and scoring information, as well as psychometric details. Contact details below.

Hogrefe Ltd.
Burgner House
4630 Kingsgate
Oxford Business Park South
OX4 2SU
UK

Tel: +44 (0) 1865 402900 Fax: +44 (0) 1865 402888

www.hogrefe.co.uk

Using the Generic Children's Quality of life measure.

Go through the initial question with the child (on the front sheet) about watching television. At this stage ascertain whether the child is able to:

- a) read the questionnaire and
- b) understand how to use the tick boys/girls correctly.

If their reading skills are not too good then you will need to read through the questionnaire with them, using the story style.

Instruct the child to go through the questions ticking each child most like themselves. When they have done all 25 of the questions this way, help them fold the sheet over to reveal the new boys/girls. Instruct them to go through the questions again, this time ticking the child they would most like to be.

Note any difficulties the child has as they complete the questionnaire.

The instructions for completion ensure that children are aware that no particular answer is considered correct, as they are referenced to five boys or girls, all of whom feel differently about things. Initially children are asked to rate how they see their lives, and they are then asked to rate how they would like it to be. The discrimination between ratings of actual life, and preferred life give a measure of satisfaction with life, that is to say, their own perception of their quality of life.

Scoring the answers is as follows

The most important score quality of life score, that is the discrimination between ratings of actual life, and preferred life.

Whilst it is not *strictly* necessary to give a 'direction' to the answers to each self or preferred question to arrive at the quality of score, it is necessary to arrive at the self score, which has its uses too. Giving direction to the questions is (nominally) as follows:

For questions 3 7 9 10 11 15 18 19 21* 23

(*do not include in self score as is strongly bidirectional)

always	often	sometimes	hardly ever	never
1	2	3	4	5

For questions 1 2 4 5 6 8 12 13 14 16 17 20 22 24 25

always	often	sometimes	hardly ever	never
5	4	3	2	1

To arrive at the more important quality of life score discrepancies are calculated between the response to each question's actual and preferred score. **Discrepancies are not given a**

negative or positive value (ie 5-3=2, and 2-4=2) this is important as the aim is to measure the discrepancy, and it is the size of the discrepancy that counts, not the direction.

For ease of comprehension and interpretation each question's discrepancy value is then 'reversed' so that a high QoL has a high score (ie. total discrepancy is changed from 4 to 0, high discrepancy is changed from 3 to 1, moderate discrepancy of 2 remains as 2, low discrepancy is changed from 1 to 3 and no discrepancy is changed from 0 to 4)

Proxy assessment - we recommend that if used as a proxy measure then the measure should be completed as the proxy thinks the child will complete it, rather than as the proxy feels about the child's life.

GCQ instructions Page 2 of 2 Collier & MacKinlay

Name	P	osition
NORMATIV	data used in normative data set as in Quality of Life Resear Measurement Level: Scale Column Width: Unknown Alignment: Right Print Format: F1 Write Format: F1	1
	Value Label 0 not used in normative study 1 used in normative study	
D_O_B	Measurement Level: Scale Column Width: Unknown Alignment: Right Print Format: DATE9 Write Format: DATE9	2
DATE_OF_	date of testing Measurement Level: Ordinal Column Width: Unknown Alignment: Right Print Format: DATE9 Write Format: DATE9	3
JARMAN	jarman score from individual children's postcodes (1991 cens Measurement Level: Scale Column Width: Unknown Alignment: Right Print Format: F11.2 Write Format: F11.2	4
E_DISTRI	ennumeration district (from child's postcode) Measurement Level: Nominal Column Width: Unknown Alignment: Left Print Format: A8 Write Format: A8	5
AGE	Measurement Level: Scale Column Width: Unknown Alignment: Right Print Format: F8.2 Write Format: F8.2	6
AGEBAND	age in whole years Measurement Level: Scale Column Width: Unknown Alignment: Right Print Format: F8.2 Write Format: F8.2	7
SEX	Measurement Level: Ordinal Column Width: 6 Alignment: Right Print Format: F11.2 Write Format: F11.2	8
	Value Label 1.00 boy 2.00 girl	

CODE	<pre>individual child id code Measurement Level: Scale Column Width: Unknown Alignment: Print Format: F11.2 Write Format: F11.2</pre>	Right	Ç
PRIM_SEC	primary or secondary school Measurement Level: Ordinal Column Width: Unknown Alignment: Print Format: F11.2 Write Format: F11.2 Value Label 1.00 primary 2.00 secondary	Right	10
RUR_URB	rural - urban setting of the school Measurement Level: Ordinal Column Width: Unknown Alignment: Print Format: F11.2 Write Format: F11.2 Value Label 1.00 rural 2.00 urban		11
AFFLUENC	affluence setting of the school Measurement Level: Ordinal Column Width: Unknown Alignment: Print Format: F11.2 Write Format: F11.2 Value Label 1.00 affluent 2.00 non affluent	Right	12
YEARNO	school year no. Measurement Level: Ordinal Column Width: Unknown Alignment: Print Format: F11.2 Write Format: F11.2	Right	13
SUBNO	subject number [in that school in Measurement Level: Ordinal Column Width: Unknown Alignment: Print Format: F11.2 Write Format: F11.2		14
SUBNO2	subject number [in that school in Measurement Level: Ordinal Column Width: Unknown Alignment: Print Format: F11.2 Write Format: F11.2		15
PERC1	perceived self q 1 [fun] Measurement Level: Ordinal Column Width: Unknown Alignment: Print Format: F11.2 Write Format: F11.2	Right	16

GCQ datafile info list Page 2 Collier & MacKinlay

PERC2	<pre>perceived self q 2 [happy/smiling] Measurement Level: Ordinal Column Width: Unknown Alignment: Right Print Format: F11.2 Write Format: F11.2</pre>	17
PERC3	<pre>perceived self q 3 [worry] Measurement Level: Ordinal Column Width: Unknown Alignment: Right Print Format: F12.2 Write Format: F12.2</pre>	18
PERC4	<pre>perceived self q 4 [time_friends] Measurement Level: Ordinal Column Width: Unknown Alignment: Right Print Format: F11.2 Write Format: F11.2</pre>	19
PERC5	<pre>perceived self q 5 [enough_friends] Measurement Level: Ordinal Column Width: Unknown Alignment: Right Print Format: F11.2 Write Format: F11.2</pre>	20
PERC6	<pre>perceived self q 6 [understood] Measurement Level: Ordinal Column Width: Unknown Alignment: Right Print Format: F11.2 Write Format: F11.2</pre>	21
PERC7	perceived self q 7 [picked on] Measurement Level: Ordinal Column Width: Unknown Alignment: Right Print Format: F12.2 Write Format: F12.2	22
PERC8	perceived self q 8 [help others] Measurement Level: Ordinal Column Width: Unknown Alignment: Right Print Format: F11.2 Write Format: F11.2	23
PERC9	perceived self q 9 [hurt others] Measurement Level: Ordinal Column Width: Unknown Alignment: Right Print Format: F12.2 Write Format: F12.2	24
PERC10	perceived self q 10 [upset] Measurement Level: Ordinal Column Width: Unknown Alignment: Right Print Format: F12.2 Write Format: F12.2	25
PERC11	perceived self q 11 [bored] Measurement Level: Ordinal Column Width: Unknown Alignment: Right Print Format: F12.2 Write Format: F12.2	26
PERC12	perceived self q 12 [go with problem] Measurement Level: Ordinal Column Width: Unknown Alignment: Right	27

GCQ datafile info list Page 3 Collier & MacKinlay

PERC13	perceived self q 13 [like parents] Measurement Level: Ordinal Column Width: Unknown Alignment: Right Print Format: F11.2 Write Format: F11.2	28
PERC14	perceived self q 14 [parents love them] Measurement Level: Ordinal Column Width: Unknown Alignment: Right Print Format: F11.2 Write Format: F11.2	29
PERC15	perceived self q 15 [told off_home] Measurement Level: Ordinal Column Width: Unknown Alignment: Right Print Format: F12.2 Write Format: F12.2	30
PERC16	perceived self q 16 [choose] Measurement Level: Ordinal Column Width: Unknown Alignment: Right Print Format: F11.2 Write Format: F11.2	31
PERC17	perceived self q 17 [happy with life] -NB general satisfacti Measurement Level: Ordinal Column Width: Unknown Alignment: Right Print Format: F11.2 Write Format: F11.2	32
PERC18	perceived self q 18 [really ill] Measurement Level: Ordinal Column Width: Unknown Alignment: Right Print Format: F12.2 Write Format: F12.2	33
PERC19	perceived self q 19 [ill stops them] Measurement Level: Ordinal Column Width: Unknown Alignment: Right Print Format: F11.2 Write Format: F11.2	34
PERC20	perceived self q 20 [way look] Measurement Level: Ordinal Column Width: Unknown Alignment: Right Print Format: F11.2 Write Format: F11.2	35
PERC21	perceived self q 21 [feel different] Measurement Level: Ordinal Column Width: Unknown Alignment: Right Print Format: F11.2 Write Format: F11.2	36
PERC22	perceived self q 22 [try hard] Measurement Level: Ordinal Column Width: Unknown Alignment: Right Print Format: F11.2 Write Format: F11.2	37

GCQ datafile info list Page 4 Collier & MacKinlay

PERC23	perceived self q 23 [told off_teacher] Measurement Level: Ordinal Column Width: Unknown Alignment: Right Print Format: F11.2 Write Format: F11.2	38
PERC24	perceived self q 24 [clever] Measurement Level: Ordinal Column Width: Unknown Alignment: Right Print Format: F11.2 Write Format: F11.2	39
PERC25	perceived self q 25 [sport] Measurement Level: Ordinal Column Width: Unknown Alignment: Right Print Format: F11.2 Write Format: F11.2	40
PREF1	preferred self q 1 [fun] Measurement Level: Ordinal Column Width: Unknown Alignment: Right Print Format: F11.2 Write Format: F11.2	41
PREF2	<pre>preferred self q 2 [happy/smiling] Measurement Level: Ordinal Column Width: Unknown Alignment: Right Print Format: F11.2 Write Format: F11.2</pre>	42
PREF3	<pre>preferred self q 3 [worry] Measurement Level: Ordinal Column Width: Unknown Alignment: Right Print Format: F11.2 Write Format: F11.2</pre>	43
PREF4	<pre>preferred self q 4 [time_friends] Measurement Level: Ordinal Column Width: Unknown Alignment: Right Print Format: F11.2 Write Format: F11.2</pre>	44
PREF5	<pre>preferred self q 5 [enough_friends] Measurement Level: Ordinal Column Width: Unknown Alignment: Right Print Format: F11.2 Write Format: F11.2</pre>	45
PREF6	<pre>preferred self q 6 [understood] Measurement Level: Ordinal Column Width: Unknown Alignment: Right Print Format: F11.2 Write Format: F11.2</pre>	46
PREF7	<pre>preferred self q 7 [picked on] Measurement Level: Ordinal Column Width: Unknown Alignment: Right Print Format: F11.2 Write Format: F11.2</pre>	47

GCQ datafile info list Page 5 Collier & MacKinlay

PREF8	<pre>preferred self q 8 [help others] Measurement Level: Ordinal Column Width: Unknown Alignment: Right Print Format: F11.2 Write Format: F11.2</pre>	4 8
PREF9	preferred self q 9 [hurt others] Measurement Level: Ordinal Column Width: Unknown Alignment: Right Print Format: F11.2 Write Format: F11.2	49
PREF10	<pre>preferred self q 10 [upset] Measurement Level: Ordinal Column Width: Unknown Alignment: Right Print Format: F11.2 Write Format: F11.2</pre>	50
PREF11	<pre>preferred self q 11 [bored] Measurement Level: Ordinal Column Width: Unknown Alignment: Right Print Format: F11.2 Write Format: F11.2</pre>	51
PREF12	preferred self q 12 [go with problem] Measurement Level: Ordinal Column Width: Unknown Alignment: Right Print Format: F11.2 Write Format: F11.2	52
PREF13	preferred self q 13 [like parents] Measurement Level: Ordinal Column Width: Unknown Alignment: Right Print Format: F11.2 Write Format: F11.2	53
PREF14	preferred self q 14 [parents love them] Measurement Level: Ordinal Column Width: Unknown Alignment: Right Print Format: F11.2 Write Format: F11.2	54
PREF15	<pre>preferred self q 15 [told off_home] Measurement Level: Ordinal Column Width: Unknown Alignment: Right Print Format: F11.2 Write Format: F11.2</pre>	55
PREF16	<pre>preferred self q 16 [choose] Measurement Level: Ordinal Column Width: Unknown Alignment: Right Print Format: F11.2 Write Format: F11.2</pre>	56
PREF17	preferred self q 17 [happy with life] -NB general satisfacti Measurement Level: Ordinal Column Width: Unknown Alignment: Right Print Format: F11.2 Write Format: F11.2	57

GCQ datafile info list Page 6 Collier & MacKinlay

PREF18	preferred self q 18 [really ill] Measurement Level: Ordinal Column Width: Unknown Alignment: Right Print Format: F11.2 Write Format: F11.2	58
PREF19	preferred self q 19 [ill stops them] Measurement Level: Ordinal Column Width: Unknown Alignment: Right Print Format: F11.2 Write Format: F11.2	59
PREF20	preferred self q 20 [way look] Measurement Level: Ordinal Column Width: Unknown Alignment: Right Print Format: F11.2 Write Format: F11.2	60
PREF21	<pre>preferred self q 21 [feel different] Measurement Level: Ordinal Column Width: Unknown Alignment: Right Print Format: F11.2 Write Format: F11.2</pre>	61
PREF22	preferred self q 22 [try hard] Measurement Level: Ordinal Column Width: Unknown Alignment: Right Print Format: F11.2 Write Format: F11.2	62
PREF23	<pre>preferred self q 23 [told off_teacher] Measurement Level: Ordinal Column Width: Unknown Alignment: Right Print Format: F11.2 Write Format: F11.2</pre>	63
PREF24	preferred self q 24 [clever] Measurement Level: Ordinal Column Width: Unknown Alignment: Right Print Format: F11.2 Write Format: F11.2	64
PREF25	<pre>preferred self q 25 [sport] Measurement Level: Ordinal Column Width: Unknown Alignment: Right Print Format: F11.2 Write Format: F11.2</pre>	65
DIFF_1	difference score q 1 [fun] Measurement Level: Scale Column Width: Unknown Alignment: Right Print Format: F8.2 Write Format: F8.2	66
DIFF_2	difference score q 2 [happy/smiling] Measurement Level: Scale Column Width: Unknown Alignment: Right Print Format: F8.2 Write Format: F8.2	67

DIFF_3	difference score q 3 [worry] Measurement Level: Scale Column Width: Unknown Alignment: Right Print Format: F8.2 Write Format: F8.2	68
DIFF_4	difference score q 4 [time_friends] Measurement Level: Scale Column Width: Unknown Alignment: Right Print Format: F8.2 Write Format: F8.2	69
DIFF_5	difference score q 5 [enough_friends] Measurement Level: Scale Column Width: Unknown Alignment: Right Print Format: F8.2 Write Format: F8.2	70
DIFF_6	difference score q 6 [understood] Measurement Level: Scale Column Width: Unknown Alignment: Right Print Format: F8.2 Write Format: F8.2	71
DIFF_7	difference score q 7 [picked on] Measurement Level: Scale Column Width: Unknown Alignment: Right Print Format: F8.2 Write Format: F8.2	72
DIFF_8	difference score q 8 [help others] Measurement Level: Scale Column Width: Unknown Alignment: Right Print Format: F8.2 Write Format: F8.2	73
DIFF_9	difference score q 9 [hurt others] Measurement Level: Scale Column Width: Unknown Alignment: Right Print Format: F8.2 Write Format: F8.2	74
DIFF_10	difference score q 10 [upset] Measurement Level: Scale Column Width: Unknown Alignment: Right Print Format: F8.2 Write Format: F8.2	75
DIFF_11	difference score q 11 [bored] Measurement Level: Scale Column Width: Unknown Alignment: Right Print Format: F8.2 Write Format: F8.2	76
DIFF_12	difference score q 12 [go with problem] Measurement Level: Scale Column Width: Unknown Alignment: Right Print Format: F8.2 Write Format: F8.2	77

GCQ datafile info list Page 8 Collier & MacKinlay

DIFF_13	difference score q 13 [like parents] Measurement Level: Scale Column Width: Unknown Alignment: Right Print Format: F8.2 Write Format: F8.2	78
DIFF_14	difference score q 14 [parents love them] Measurement Level: Scale Column Width: Unknown Alignment: Right Print Format: F8.2 Write Format: F8.2	79
DIFF_15	difference score q 15 [told off_home] Measurement Level: Scale Column Width: Unknown Alignment: Right Print Format: F8.2 Write Format: F8.2	80
DIFF_16	difference score q 16 [choose] Measurement Level: Scale Column Width: Unknown Alignment: Right Print Format: F8.2 Write Format: F8.2	81
DIFF_17	difference score q 17 [happy with life] -NB general satisfac Measurement Level: Scale Column Width: Unknown Alignment: Right Print Format: F8.2 Write Format: F8.2	82
DIFF_18	difference score q 18 [really ill] Measurement Level: Scale Column Width: Unknown Alignment: Right Print Format: F8.2 Write Format: F8.2	83
DIFF_19	difference score q 19 [ill stops them] Measurement Level: Scale Column Width: Unknown Alignment: Right Print Format: F8.2 Write Format: F8.2	84
DIFF_20	difference score q 20 [way look] Measurement Level: Scale Column Width: Unknown Alignment: Right Print Format: F8.2 Write Format: F8.2	85
DIFF_21	difference score q 21 [feel different] Measurement Level: Scale Column Width: Unknown Alignment: Right Print Format: F8.2 Write Format: F8.2	86
DIFF_22	difference score q 22 [try hard] Measurement Level: Scale Column Width: Unknown Alignment: Right Print Format: F8.2 Write Format: F8.2	87

GCQ datafile info list Page 9 Collier & MacKinlay

DIFF_23	difference score q 23 [told off_teacher] Measurement Level: Scale Column Width: Unknown Alignment: Right Print Format: F8.2 Write Format: F8.2	88
DIFF_24	difference score q 24 [clever] Measurement Level: Scale Column Width: Unknown Alignment: Right Print Format: F8.2 Write Format: F8.2	89
DIFF_25	difference score q 25 [sport] Measurement Level: Scale Column Width: Unknown Alignment: Right Print Format: F8.2 Write Format: F8.2	90
TOTPERC	total perceived score Measurement Level: Scale Column Width: Unknown Alignment: Right Print Format: F8.2 Write Format: F8.2	91
TOTPREF	total preferred score Measurement Level: Scale Column Width: Unknown Alignment: Right Print Format: F8.2 Write Format: F8.2	92
TOT_DIFF	total difference score Measurement Level: Scale Column Width: Unknown Alignment: Right Print Format: F8.2 Write Format: F8.2	93
QOL	qol score - only for comparison if all 25 questions answere Measurement Level: Scale Column Width: Unknown Alignment: Right Print Format: F8.2 Write Format: F8.2	94
NUM_PERC	number of perceived questions with valid responses Measurement Level: Scale Column Width: Unknown Alignment: Right Print Format: F8.2 Write Format: F8.2	95
NUM_PREF	number of preferred questions with valid responses Measurement Level: Scale Column Width: Unknown Alignment: Right Print Format: F8.2 Write Format: F8.2	96
NUM_DIFF	number of difference questions able to be calculated Measurement Level: Scale Column Width: Unknown Alignment: Right Print Format: F8.2 Write Format: F8.2	97
QOL_MAX	maximum qol score - alters with the number of questions answ Measurement Level: Scale Column Width: Unknown Alignment: Right Print Format: F8 2	98

```
IF (age \geq 6.0 & age \leq 6.9999 ) ageband = 6 .
EXECUTE .
IF (age >= 7.0 \& age <= 7.9999) ageband = 7.
EXECUTE .
IF (age >= 8.0 \& age <= 8.9999) ageband = 8.
EXECUTE .
IF (age \geq 9.0 & age \leq 9.9999 ) ageband = 9 .
IF (age \geq 10.0 & age \leq10.9999 ) ageband = 10 .
EXECUTE .
IF (age \geq= 11.0 & age \leq=11.9999 ) ageband = 11 .
EXECUTE .
IF (age \geq 12.0 & age \leq 12.9999 ) ageband = 12 .
EXECUTE .
IF (age \geq 13.0 & age \leq 13.9999 ) ageband = 13 .
EXECUTE .
IF (age \geq= 14.0 ) ageband = 14 .
EXECUTE .
```

COUNT

num_perc = perc1 perc2 perc3 perc4 perc5 perc6 perc7 perc8 perc9 perc10
perc11 perc12 perc13 perc14 perc15 perc16 perc17 perc18 perc19 perc20 perc21
perc22 perc23 perc24 perc25 (1) perc1 perc2 perc3 perc4 perc5 perc6 perc7
perc8 perc9 perc10 perc11 perc12 perc13 perc14 perc15 perc16 perc17 perc18
perc19 perc20 perc21 perc22 perc23 perc24 perc25 (2) perc1 perc2 perc3
perc4 perc5 perc6 perc7 perc8 perc9 perc10 perc11 perc12 perc13 perc14
perc15 perc16 perc17 perc18 perc19 perc20 perc21 perc22 perc23 perc24 perc25
(3) perc1 perc2 perc3 perc4 perc5 perc6 perc7 perc8 perc9 perc10 perc11
perc12 perc13 perc14 perc15 perc16 perc17 perc18 perc19 perc20 perc21 perc22
perc23 perc24 perc25 (4) perc1 perc2 perc3 perc4 perc5 perc6 perc7 perc8
perc9 perc10 perc11 perc12 perc13 perc14 perc15 perc16 perc17 perc18 perc19
perc20 perc21 perc22 perc23 perc24 perc25 (5) .

VARIABLE LABELS num perc 'number of perceived questions with valid responses'

EXECUTE .

num_pref = pref1 pref2 pref3 pref4 pref5 pref6 pref7 pref8 pref9 pref10
pref11 pref12 pref13 pref14 pref15 pref16 pref17 pref18 pref19 pref20 pref21
pref22 pref23 pref24 pref25 (1) pref1 pref2 pref3 pref4 pref5 pref6 pref7
pref8 pref9 pref10 pref11 pref12 pref13 pref14 pref15 pref16 pref17 pref18
pref19 pref20 pref21 pref22 pref23 pref24 pref25 (2) pref1 pref2 pref3
pref4 pref5 pref6 pref7 pref8 pref9 pref10 pref11 pref12 pref13 pref14
pref15 pref16 pref17 pref18 pref19 pref20 pref21 pref22 pref23 pref24 pref25
(3) pref1 pref2 pref3 pref4 pref5 pref6 pref7 pref8 pref9 pref10 pref11
pref12 pref13 pref14 pref15 pref16 pref17 pref18 pref19 pref20 pref21 pref22
pref23 pref24 pref25 (4) pref1 pref2 pref3 pref4 pref5 pref6 pref7 pref8
pref9 pref10 pref11 pref12 pref13 pref14 pref15 pref16 pref17 pref18 pref19
pref20 pref21 pref22 pref23 pref24 pref25 (5) .

VARIABLE LABELS num_pref 'number of preferred questions with valid responses'

EXECUTE .

```
-pref1) .
EXECUTE .
IF (perc2 >= 1 \& perc2 <= 5 \& pref2 >= 1 \& pref2 <= 5) diff 2 = ABS(perc2)
 -pref2) .
EXECUTE .
IF (perc3 >= 1 \& perc3 <= 5 \& pref3 >= 1 \& pref3 <= 5) diff 3 = ABS(perc3 >= 1 \& pref3 <= 5)
-pref3) .
EXECUTE .
IF (perc4 >= 1 \& perc4 <= 5 \& pref4 >= 1 \& pref4 <= 5) diff 4 = ABS(perc4)
-pref4) .
EXECUTE .
IF (perc5 \geq 1 & perc5 \leq 5 & pref5 \geq 1 & pref5 \leq 5) diff 5 = ABS(perc5
-pref5) .
EXECUTE .
IF (perc6 >= 1 \& perc6 <= 5 \& pref6 >= 1 \& pref6 <= 5) diff 6 = ABS(perc6)
-pref6) .
EXECUTE .
IF (perc7 >= 1 \& perc7 <= 5 \& pref7 >= 1 \& pref7 <= 5) diff 7 = ABS(perc7)
-pref7) .
EXECUTE .
IF (perc8 >= 1 & perc8 <= 5 & pref8 >= 1 & pref8 <= 5) diff 8 = ABS(perc8
 -pref8) .
EXECUTE .
IF (perc9 >= 1 \& perc9 <= 5 \& pref9 >= 1 \& pref9 <= 5) diff 9 = ABS(perc9)
 -pref9) .
EXECUTE .
IF (perc10 >= 1 & perc10 <= 5 & pref10 >= 1 & pref10 <= 5) diff 10 = ABS(perc10
-pref10) .
EXECUTE .
IF (perc11 >= 1 & perc11 <= 5 & pref11 >= 1 & pref11 <= 5) diff 11 = ABS(perc11
-pref11) .
EXECUTE .
IF (perc12 >= 1 & perc12 <= 5 & pref12 >= 1 & pref12 <= 5) diff 12 = ABS(perc12
-pref12) .
EXECUTE .
IF (perc13 >= 1 \& perc13 <= 5 \& pref13 >= 1 \& pref13 <= 5) diff 13 = ABS(perc13)
-pref13) .
EXECUTE .
IF (perc14 >= 1 \& perc14 <= 5 \& pref14 >= 1 \& pref14 <= 5) diff 14 = ABS(perc14)
-pref14) .
EXECUTE .
IF (perc15 >= 1 & perc15 <= 5 & pref15 >= 1 & pref15 <= 5) diff 15 = ABS(perc15
 -pref15) .
EXECUTE .
```

IF (perc1 >= 1 & perc1 <= 5 & pref1 >= 1 & pref1 <= 5) diff 1 = ABS(perc1)

```
-pref16) .
EXECUTE .
IF (perc17 >= 1 & perc17 <= 5 & pref17 >= 1 & pref17 <= 5) diff 17 = ABS(perc17
EXECUTE .
IF (perc18 >= 1 & perc18 <= 5 & pref18 >= 1 & pref18 <= 5) diff 18 = ABS(perc18
-pref18) .
EXECUTE .
IF (perc19 >= 1 & perc19 <= 5 & pref19 >= 1 & pref19 <= 5) diff 19 = ABS(perc19
-pref19) .
EXECUTE .
IF (perc20 >= 1 \& perc20 <= 5 \& pref20 >= 1 \& pref20 <= 5) diff 20 = ABS(perc20)
-pref20) .
EXECUTE .
IF (perc21 >= 1 \& perc21 <= 5 \& pref21 >= 1 \& pref21 <= 5) diff 21 = ABS(perc21
-pref21) .
EXECUTE .
IF (perc22 >= 1 \& perc22 <= 5 \& pref22 >= 1 \& pref22 <= 5) diff 22 = ABS(perc22)
-pref22) .
EXECUTE .
IF (perc23 >= 1 & perc23 <= 5 & pref23 >= 1 & pref23 <= 5) diff 23 = ABS(perc23
-pref23) .
EXECUTE .
IF (perc24 >= 1 \& perc24 <= 5 \& pref24 >= 1 \& pref24 <= 5) diff 24 = ABS(perc24)
EXECUTE .
IF (perc25 >= 1 \& perc25 <= 5 \& pref25 >= 1 \& pref25 <= 5) diff 25 = ABS(perc25 = 1 \& pref25 <= 5)
-pref25) .
EXECUTE .
COMPUTE tot diff =
SUM(diff 1, diff 2, diff 3, diff 4, diff 5, diff 6, diff 7, diff 8, diff 9
diff 10, diff 11, diff 12, diff 13, diff 14, diff 15, diff 16, diff 17, diff 18, diff 19
 , diff 20, diff 21, diff 22, diff 23, diff 24, diff 25) .
EXECUTE .
COUNT
  num diff = diff 1 diff 2 diff 3 diff 4 diff 5 diff 6 diff 7 diff 8 diff 9
  diff 10 diff 11 diff 12 diff 13 diff 14 diff 15 diff 16 diff 17 diff 18
 diff 19 diff 20 diff 21 diff 22 diff 23 diff 24 diff 25 (0) diff 1 diff 2
 diff 3 diff 4 diff 5 diff 6 diff 7 diff 8 diff 9 diff 10 diff 11 diff 12
 diff 13 diff 14 diff 15 diff 16 diff 17 diff 18 diff 19 diff 20 diff 21
 diff 22 diff 23 diff 24 diff 25 (1) diff 1 diff 2 diff 3 diff 4 diff 5
 diff 6 diff 7 diff 8 diff 9 diff 10 diff 11 diff 12 diff 13 diff 14 diff 15
      diff_3 diff_4 diff_5 diff_6 diff 7 diff 8 diff 9 diff 10 diff 11 diff 12
```

IF (perc16 >= 1 & perc16 <= 5 & pref16 >= 1 & pref16 <= 5) diff 16 = ABS(perc16

```
diff 13 diff 14 diff 15 diff 16 diff 17 diff 18 diff 19 diff 20 diff 21
  diff 22 diff 23 diff 24 diff 25
                                  (4)
EXECUTE .
VARIABLE LABELS num diff 'number of difference questions able to be calculated'
COMPUTE qol max = (4*num diff).
EXECUTE .
VARIABLE LABELS gol max 'maximum gol score - alters with the number of questions
answered'
COMPUTE qol = (qol max)-tot diff.
EXECUTE .
VARIABLE LABELS qol ' qol score - only for comparison if all 25 questions
answered fully, ie num diff=25'
VARIABLE LABELS perc1 "perceived self q 1 [fun]".
VARIABLE LABELS perc2 "perceived self q 2 [happy/smiling]".
VARIABLE LABELS perc3 "perceived self q 3 [worry]".
VARIABLE LABELS perc4 "perceived self q 4 [time_friends]".
VARIABLE LABELS perc5 "perceived self q 5 [enough_friends]".
VARIABLE LABELS perc6 "perceived self q 6 [understood]".
VARIABLE LABELS perc7 "perceived self q 7 [picked on]".
VARIABLE LABELS perc8 "perceived self q 8 [help others]".
VARIABLE LABELS perc9 "perceived self q 9 [hurt others]".
VARIABLE LABELS perc10 "perceived self q 10 [upset]".
VARIABLE LABELS perc11 "perceived self q 11 [bored]".
VARIABLE LABELS perc12 "perceived self q 12 [go with problem]".
VARIABLE LABELS perc13 "perceived self q 13 [like parents]".
VARIABLE LABELS perc14 "perceived self q 14 [parents love them]".
VARIABLE LABELS perc15 "perceived self q 15 [told off home]".
VARIABLE LABELS perc16 "perceived self q 16 [choose]".
VARIABLE LABELS perc17 "perceived self q 17 [happy with life] -NB general
satisfaction question"
VARIABLE LABELS perc18 "perceived self q 18 [really ill] ".
VARIABLE LABELS perc19 "perceived self q 19 [ill stops them] ".
VARIABLE LABELS perc20 "perceived self q 20 [way look] ".
VARIABLE LABELS perc21 "perceived self q 21 [feel different] ".
VARIABLE LABELS perc22 "perceived self q 22 [try hard] ".
VARIABLE LABELS perc23 "perceived self q 23 [told off teacher] ".
VARIABLE LABELS perc24 "perceived self q 24 [clever] ".
VARIABLE LABELS perc25 "perceived self q 25 [sport] ".
VARIABLE LABELS pref1 "preferred self q 1 [fun]".
VARIABLE LABELS pref2 "preferred self q 2 [happy/smiling]".
VARIABLE LABELS pref3 "preferred self q 3 [worry]".
VARIABLE LABELS pref4 "preferred self q 4 [time friends]".
VARIABLE LABELS pref5 "preferred self q 5 [enough_friends]".
VARIABLE LABELS pref6 "preferred self q 6 [understood]".
VARIABLE LABELS pref7 "preferred self q 7 [picked on]".
VARIABLE LABELS pref8 "preferred self q 8 [help others]".
VARIABLE LABELS pref9 "preferred self q 9 [hurt others]".
VARIABLE LABELS pref10 "preferred self q 10 [upset]".
VARIABLE LABELS pref11 "preferred self q 11 [bored]".
VARIABLE LABELS pref12 "preferred self q 12 [go with problem]".
VARIABLE LABELS pref13 "preferred self q 13 [like parents]".
VARIABLE LABELS pref14 "preferred self q 14 [parents love them]".
```

```
VARIABLE LABELS pref15 "preferred self q 15 [told off home]".
VARIABLE LABELS pref16 "preferred self q 16 [choose] ".
VARIABLE LABELS pref17 "preferred self q 17 [happy with life] -NB general
satisfaction question".
VARIABLE LABELS pref18 "preferred self q 18 [really ill] ".
VARIABLE LABELS pref19 "preferred self q 19 [ill stops them] ".
VARIABLE LABELS pref20 "preferred self q 20 [way look] ".
VARIABLE LABELS pref21 "preferred self q 21 [feel different] ".
VARIABLE LABELS pref22 "preferred self q 22 [try hard] ".
VARIABLE LABELS pref23 "preferred self q 23 [told off_teacher] ".
VARIABLE LABELS pref24 "preferred self q 24 [clever] ".
VARIABLE LABELS pref25 "preferred self q 25 [sport] ".
VARIABLE LABELS diff_1 "difference score q 1 [fun]".

VARIABLE LABELS diff_2 "difference score q 2 [happy/smiling]".

VARIABLE LABELS diff_3 "difference score q 3 [worry]".
VARIABLE LABELS diff_4 "difference score q 4 [time_friends]".
VARIABLE LABELS diff_5 "difference score q 5 [enough friends]".
VARIABLE LABELS diff_6 "difference score q 6 [understood]".
VARIABLE LABELS diff_7 "difference score q 7 [picked on]".
VARIABLE LABELS diff_8 "difference score q 8 [help others]".
VARIABLE LABELS diff 9 "difference score q 9 [hurt others]".
VARIABLE LABELS diff 10 "difference score q 10 [upset]".
VARIABLE LABELS diff 11 "difference score q 11 [bored]".
VARIABLE LABELS diff 12 "difference score q 12 [go with problem]".
VARIABLE LABELS diff_13 "difference score q 13 [like parents]".
VARIABLE LABELS diff_14 "difference score q 14 [parents love them]".
VARIABLE LABELS diff 15 "difference score q 15 [told off home]".
VARIABLE LABELS diff 16 "difference score q 16 [choose]".
VARIABLE LABELS diff 17 "difference score q 17 [happy with life] -NB general
satisfaction question".
VARIABLE LABELS diff 18 "difference score q 18 [really ill] ".
VARIABLE LABELS diff 19 "difference score q 19 [ill stops them] ".
VARIABLE LABELS diff 20 "difference score q 20 [way look] ".
VARIABLE LABELS diff 21 "difference score q 21 [feel different] ".
VARIABLE LABELS diff 22 "difference score q 22 [try hard] ".
VARIABLE LABELS diff 23 "difference score q 23 [told off teacher] ".
VARIABLE LABELS diff 24 "difference score q 24 [clever] ".
VARIABLE LABELS diff 25 "difference score q 25 [sport] ".
VARIABLE LABELS date of "date of testing".
VARIABLE LABELS code "individual child id code".
VARIABLE LABELS affluenc "affluence setting of the school".
VARIABLE LABELS rur urb "rural - urban setting of the school".
VARIABLE LABELS yearno "school year no.".
VARIABLE LABELS totperc "total perceived score".
VARIABLE LABELS totpref "total preferred score".
VARIABLE LABELS tot diff "total difference score".
VARIABLE LABELS gol "quality of life score".
VARIABLE LABELS ageband "age in whole years".
VARIABLE LABELS jarman "jarman score from indivdual children's postcodes".
VARIABLE LABELS e distri "ennumeration district (from child's postcode)".
VARIABLE LABELS prim sec "primary or secondary school".
VARIABLE LABELS subno "subject number [in that school in that class] first
VARIABLE LABELS subno2 "subject number [in that school in that class] second
digit".
```

```
1.0000000000000 "boy"
2.0000000000000 "girl"

.

VALUE LABELS prim_sec
1.00000000000000 "primary"
2.00000000000000 "secondary"

.

VALUE LABELS rur_urb
1.00000000000000 "rural"
2.0000000000000 "urban"

.

VALUE LABELS affluenc
1.00000000000000 "affluent"
2.000000000000000 "non affluent"
```