9 Year Twin Booklet Coding

Entries in red denote variable names and values used in the <u>analysis dataset</u>.

Entries in blue denote variable names and value coding used in the raw data, where this differs from the dataset.

This document was created in February 2008 and last updated July 2022.

Notes:
1. The layout and formatting of the original booklet have NOT been retained in this document. For example, all graphics have been removed, and the whole booklet is compressed into a smaller number of pages. This document is simply designed to show the variable names and value coding of the booklet items.
2. For the quizzes (cognitive tests), the dataset items are scores, whereas the raw items are responses.
3. In most other items, the value codes used in the dataset are the same as those recorded in the raw data. Where there are changes in coding, these are annotated using the blue font for raw values and the red font for dataset values.
4. Variable names are generally the same in the dataset as in the raw data, except that the raw variable names end in "1" while the double entered variable names end in both "1" and "2", denoting twin and cotwin variables respectively (see below).
5. In the raw data, a 'missing' response is coded as -99, but in the analysis dataset these are recoded to missing values.
6. The "My Story" activity, which was on pages 16-19 of the booklet, was not entered or coded alongside the rest of the booklet data, so has not been included in this document. The story pages were removed and processed in a separate study.
7. All data in the twin booklet is specific to a particular twin (either elder or younger), and the item data are held in variables with names ending in '1', relating to the twin in question (the 'index' twin). However, in the double-entered dataset the variables are duplicated for the co-twins, so data for both twins can be compared within a single row of the dataset. In the double-entered dataset, variables with names ending in '1' refer to the index twin, while variables with names ending in '2' refer to the co-twin.
8. The data shown in this document are all coded numeric values (from tick-boxes that were used to record responses).

Quiz 1
(pages 2-7 in the original booklet)

dataset variable	Raw data variable	Item	Dataset coding (scores)					Raw data coding (responses)				
			A	B	C	D	E	A	B	C	D	E
		Practice 1	(not scored)					(not recorded)				
		Practice 2	(not scored)					(not recorded)				
	icshp011	1						1	2	3	4	5
icshp021/2	icshp021	2	0	1	0	0	0	1	2	3	4	5
icshp031/2	icshp031	3	0	0	1	0	0	1	2	3	4	5
icshp041/2	icshp041	4	0	0	0	0	1	1	2	3	4	5
icshp051/2	icshp051	5	0	0	0	1	0	1	2	3	4	5
icshp061/2	icshp061	6	1	0	0	0	0	1	2	3	4	5
icshp071/2	icshp071	7	0	1	0	0	0	1	2	3	4	5
icshp081/2	icshp081	8	0	0	0	0	1	1	2	3	4	5
icshp091/2	icshp091	9	0	0	0	0	1	1	2	3	4	5
icshp101/2	icshp101	10	1	0	0	0	0	1	2	3	4	5
icshp111/2	icshp111	11	0	0	0	1	0	1	2	3	4	5
icshp121/2	icshp121	12	0	0	1	0	0	1	2	3	4	5
icshp131/2	icshp131	13	0	1	0	0	0	1	2	3	4	5
icshp141/2	icshp141	14	0	0	0	1	0	1	2	3	4	5
icshp151/2	icshp151	15	0	0	1	0	0	1	2	3	4	5
icshp161/2	icshp161	16	0	0	0	0	1	1	2	3	4	5
icshp171/2	icshp171	17	0	1	0	0	0	1	2	3	4	5
icshp181/2	icshp181	18	1	0	0	0	0	1	2	3	4	5
icshp191/2	icshp191	19	1	0	0	0	0	1	2	3	4	5
icshp201/2	icshp201	20	0	1	0	0	0	1	2	3	4	5
icshp211/2	icshp211	21	0	0	0	1	0	1	2	3	4	5
icshp221/2	icshp221	22	0	0	0	0	1	1	2	3	4	5
icshp231/2	icshp231	23	0	0	0	1	0	1	2	3	4	5
icshp241/2	icshp241	24	0	0	0	0	1	1	2	3	4	5

These questions are about your life and the things you like to do. Take your time and answer the questions as best you can.

(pages 8-10 in the original booklet)

dataset variable		Very true	Quite true	Not true
ichom011/2	1. My parent(s) make sure I set aside quiet time for doing my homework.	2	1	0
ichom021/2	2. The television is usually on when I do my homework.	2	1	0
ichom031/2	3. I often ask someone at home for help with my homework because I get stuck.	2	1	0
ichom041/2	4. Someone (parent, other adult, brother or sister) helps me with homework that I should really do by myself.	2	1	0
ichom051/2	5. How many nights per week does your teacher set homework?	0 0 3 3	1 1 4 4	2 2 5+ 5
Please only answer the next question if your teacher sets homework 1 or more nights per week.				
ichom061/2	6. About how many hours do you spend doing homework each night?	½ or less 0 3 3	1 1 3+ 4	2 2
		Very true	Quite true	Not true
ichom071/2	7. My parent(s) think a good education is very important.	2	1	0
ichom081/2	8. My parent(s) think that trying to do my best in school is important.	2	1	0
ichom091/2	9. I often discuss what I have been doing in school with my parent(s).	2	1	0
ichom101/2	10. My parent(s) are interested in the marks I get at school.	2	1	0
ichom111 icchaos11/2	11. I have a regular bedtime routine.	2	1	0
ichom121 icchaos21/2	12. You can't hear yourself think in our home.	2	1	0
ichom131 icchaos31/2	13. It's a real zoo in our home.	2	1	0
ichom141 icchaos41/2	14. We are usually able to stay on top of things.	2	1	0
ichom151 icchaos51/2	15. There is usually a television turned on somewhere in our home.	2	1	0
ichom161 icchaos61/2	16. The atmosphere in our house is calm.	2	1	0
ichom171/2	17. I often read for fun.	2	1	0
ichom181/2	18. My Mum/Dad often reads to me.	2	1	0
ichom191/2	19. Someone in our family has taken me to a museum (children's, scientific, art, historical etc) in the last year.	2	1	0
ichom201/2	20. We have a computer at home which I use.	2	1	0

Code	Question			
ichom211/2	21. How many books for children do you have at home?	0 **0**	1-5 **1**	6-10 **2**
		11-20 **3**	21-30 **4**	31+ **5**
ichom221/2	22. On a normal school day how many hours of television do you watch?	0 **0**	1 **1**	2 **2**
		3 **3**	4 **4**	4+ **5**
ichom231/2	23. On a normal weekend day how many hours of television do you watch?	0 **0**	1 **1**	2 **2**
		3 **3**	4 **4**	4+ **5**
	24. When I misbehave:	**Very true**	**Quite true**	**Not true**
icdisma1/2	I am smacked or slapped.	**2**	**1**	**0**
icdisho1/2	I am told off or shouted at.	**2**	**1**	**0**
icdiexp1/2	My parent(s) explain why what I have done is wrong.	**2**	**1**	**0**
icdifir1/2	My parent(s) are firm and calm with me.	**2**	**1**	**0**
icdijok1/2	My parent(s) make a joke out of it.	**2**	**1**	**0**
icdiask1/2	My Mum/Dad asks someone else to deal with me.	**2**	**1**	**0**
		Often	**Sometimes**	**Rarely or Never**
ichom251 icbpimp1/2	25. My Mum/Dad gets impatient with me.	**2**	**1**	**0**
ichom261 icbphap1/2	26. I feel happy about my relationship with my Mum/Dad.	**2**	**1**	**0**
ichom271 icbpamu1/2	27. My Mum/Dad finds me funny – I make him/her laugh.	**2**	**1**	**0**
ichom281 icbpalo1/2	28. My Mum/Dad sometimes wishes I would leave him/her alone for a few minutes.	**2**	**1**	**0**
ichom291 icbpang1/2	29. I make my Mum/Dad angry.	**2**	**1**	**0**
ichom301 icbpclo1/2	30. I feel close to my Mum/Dad	**2**	**1**	**0**
ichom311 icbpfru1/2	31. I make my Mum/Dad feel frustrated.	**2**	**1**	**0**
ichom321/2	32. How many times a week do you usually eat an evening meal with your parent(s)?	0 **0**	1 **1**	2 **2**
		3 **3**	4 **4**	5 **5**
		6 **6**	7 **7**	
ichom331/2	33. On a normal school night how many hours of sleep do you usually get?	6 or less **0**	7 **1**	8 **2**
		9 **3**	10 **4**	11+ **5**

Quiz 2
(pages 11-13 in the original booklet)

Please tick this box if your Mum or Dad helped you to read the questions:

	Raw data coding (responses)	1	2	3	4
icwrd011/2	1. What is a **cow**?	A farm animal 2	Something that goes moo 0	A plough 0	-
icwrd021/2	2. What is a **bicycle**?	An lollypop 0	Something that has wheels	Something you ride to go places 2	-
icwrd031/2	3. What is a **thief**?	A bad person 0	A robber 2	Someone in jail 0	A chief 0
icwrd041/2	4. What is a **donkey**?	An animal that is like a horse 2	A monkey 0	Something that has long ears 0	Something that lives on a farm 0
icwrd051/2	5. What does **leave** mean?	Move 1	Leaf 0	Goodbye 0	Go away 2
icwrd061/2	6. What does **brave** mean?	Strong 0	Fearless 2	You save someone 1	Braid 0
icwrd071/2	7. What is an **island**?	A eyelid 0	A beach with palm trees 0	Land surrounded by water 2	A place in the ocean 1
icwrd081/2	8. What does **mimic** mean?	Mystic 0	Clown around 0	Copy 2	Tease 1
icwrd091/2	9. What does **precise** mean?	Correct 1	Exact 2	Precious 0	Efficient 0
icwrd101/2	10. What does **migrate** mean?	Hibernate 0	Migraine 0	Fly south 1	Move seasonally 2
icwrd111/2	11. What does **absorb** mean?	Soak up 2	Absurd 0	Dry up 1	Evaporate 0
icwrd121/2	12. What does **transparent** mean?	Clear 2	Look through 1	Opaque 0	Transplant 0
icwrd131/2	13. What does **strenuous** mean?	Tiring for your muscles 1	Requiring great effort 2	Sinuous 0	Painful 0
icwrd141/2	14. What does **boast** mean?	Praise yourself 1	Conceited 0	Burst 0	Brag 2
icwrd151/2	15. What does **ancient** mean?	Very old 2	Out of date 1	Anxious 0	History 0
icwrd161/2	16. What is an **amendment**?	Something extra 1	A commandment 0	Government 0	Revision 2
icwrd171/2	17. What does **rivalry** mean?	A rifle 0	A competition 2	An enemy 0	A fight 1
icwrd181/2	18. What does **fable** mean?	A true story 0	A story book 1	A stable 0	A story that teaches us a lesson 2
icwrd191/2	19. What does **unanimous** mean?	Anonymous 0	Everyone agrees 2	The whole group 1	A majority 0
icwrd201/2	20. What does **seclude** mean?	Leave 0	Include 0	Isolate 2	Alone 1

Now we would like to know about you and what you think and do….
(pages 14-15 in the original booklet)

Raw data variable	Dataset variable		Very true	Quite true	Not true
icbh011	icsdqpro31/2	I am helpful if someone is hurt, upset or feeling ill	2	1	0
icbh021	icsdqhyp31/2	I am easily distracted, I find it difficult to concentrate	2	1	0
icbh031	icodd11/2	I often argue with adults	2	1	0
icbh041	icsdqcon41/2	I am often told off for lying or cheating	2	1	0
icbh051	icodd21/2	I often refuse to do what adults ask me	2	1	0
icbh061	icsdqemo21/2	I worry a lot	2	1	0
icbh071	icsdqpro11/2	I try to be nice to other people. I care about their feelings	2	1	0
icbh081	icsdqhyp11/2	I am jumpy and I cannot stay still for long	2	1	0
icbh091	icsdqemo11/2	I get a lot of headaches, stomach-aches or sickness	2	1	0
icbh101	icsdqpro21/2	I like to share with others (food, games, pens etc)	2	1	0
icbh111	icsdqcon11/2	I get very angry and often lose my temper	2	1	0
icbh121	icsdqcon21/2	I usually do as I am told	2	1	0
icbh131	icodd31/2	I often do things to annoy people on purpose	2	1	0
icbh141	icsdqhyp21/2	I am often fidgeting or squirming	2	1	0
icbh151	icsdqper21/2	I have one good friend or more	2	1	0
icbh161	icsdqcon31/2	I fight a lot and I make other people do what I want	2	1	0
icbh171	icsdqemo31/2	I am often unhappy or tearful	2	1	0
icbh181	icsdqper31/2	Other people my age like me	2	1	0
icbh191	icsdqemo41/2	I am nervous in new situations. I easily lose confidence	2	1	0
icbh201	icsdqpro41/2	I am kind to younger children	2	1	0
icbh211	icodd41/2	I easily get annoyed by other people	2	1	0
icbh221	icsdqper41/2	Other children or young people pick on me or bully me	2	1	0
icbh231	icsdqpro51/2	I often volunteer to help others (parents, teachers, children)	2	1	0
icbh241	icsdqhyp41/2	I think before I do things	2	1	0
icbh251	icsdqcon51/2	I take things that are not mine from home, school or other places	2	1	0
icbh261	icsdqper51/2	I get on better with adults than with people my own age	2	1	0
icbh271	icodd51/2	I am often angry	2	1	0
icbh281	icsdqemo51/2	I have many fears, I am easily scared	2	1	0
icbh291	icsdqhyp51/2	I finish the work I'm doing. My attention is good	2	1	0
icbh301	icsdqper11/2	I am usually on my own. I like to play alone or keep to myself	2	1	0

My Story

(pages 16-19 in the original booklet)

How good do you think you are at:

(page 20 in the original booklet)

dataset variable		Very good	Quite good	Doing OK	Not so good	Not at all good
icgoo011/2	1. Reading?	1	2	3	4	5
icgoo021/2	2. Writing?	1	2	3	4	5
icgoo031/2	3. Spelling?	1	2	3	4	5
icgoo041/2	4. Solving number and money problems?	1	2	3	4	5
icgoo051/2	5. Doing maths in your head?	1	2	3	4	5
icgoo061/2	6. Multiplying and dividing?	1	2	3	4	5
icgoo071/2	7. Learning about nature and living things?	1	2	3	4	5
icgoo081/2	8. Testing things out to see what they can do? (e.g. magnets)	1	2	3	4	5
icgoo091/2	9. Finding out how things work? (e.g. the human body)	1	2	3	4	5
icgoo101/2	10. Playing team games?	1	2	3	4	5
icgoo111/2	11. Races and competitions?	1	2	3	4	5
icgoo121/2	12. PE classes?	1	2	3	4	5

How much do you like:

(page 21 in the original booklet)

dataset variable		Like it very much	Do like it	It's OK	Don't like it	Don't like at all
iclik011/2	1. Reading?	1	2	3	4	5
iclik021/2	2. Writing?	1	2	3	4	5
iclik031/2	3. Spelling?	1	2	3	4	5
iclik041/2	4. Solving number and money problems?	1	2	3	4	5
iclik051/2	5. Doing maths in your head?	1	2	3	4	5
iclik061/2	6. Multiplying and dividing?	1	2	3	4	5
iclik071/2	7. Learning about nature and living things?	1	2	3	4	5
iclik081/2	8. Testing things out to see what they can do? (e.g. magnets)	1	2	3	4	5
iclik091/2	9. Finding out how things work? (e.g. the human body)	1	2	3	4	5
iclik101/2	10. Playing team games?	1	2	3	4	5
iclik111/2	11. Races and competitions?	1	2	3	4	5
iclik121/2	12. PE classes?	1	2	3	4	5

Quiz 3
(pages 22-24 in the original booklet)

Please tick this box if your Mum or Dad helped you to read the questions:

	Raw data coding (responses)	1	2	3	4
icgen011/2	1. What must you do to make water boil?	Heat it 1	Put water in it 0	Put eggs in 0	Stir it 0
icgen021/2	2. What month comes right after March?	April 1	May 0	June 0	February 0
icgen031/2	3. How many days are there in a week?	2 0	5 0	7 1	10 0
icgen041/2	4. How many things make a dozen?	Six 0	Twelve 1	Eggs 0	Ten 0
icgen051/2	5. Name three oceans.	River, Lake, Sea 0	Indian, Pacific, Atlantic 1	Stream, Pond, Creek 0	English Channel, Cardigan Bay, Thames 0
icgen061/2	6. What does the stomach do?	Digests food 1	Growls 0	Breathes 0	Swallows 0
icgen071/2	7. Who was Christopher Columbus?	He was a president 0	He was a pilgrim 0	He discovered America 1	He was an inventor 0
icgen081/2	8. Which month has one extra day every four years?	January 0	February 1	May 0	December 0
icgen091/2	9. How many hours are there in a day?	8 0	12 0	24 1	60 0
icgen101/2	10. What is the capital of Greece?	Rome 0	Cairo 0	Crete 0	Athens 1
icgen111/2	11. How is oxygen returned to the air?	By breathing 0	By plants 1	By the wind 0	By clouds 0
icgen121/2	12. Who was Anne Frank?	A singer 0	A pilot 0	A girl who wrote a diary 1	A teacher of deaf and blind 0
icgen131/2	13. On what continent is Brazil?	South Africa 0	Asia 0	South America 1	Europe 0
icgen141/2	14. In what direction does the sun set?	North 0	East 0	South 0	West 1
icgen151/2	15. What are hieroglyphics?	Ancient Greek letters 0	Roman numerals 0	Egyptian writing 1	Cave drawings 0
icgen161/2	16. What is a barometer?	It measures rainfall 0	It measures wind speed 0	It measures air pressure 1	It measures earthquakes 0
icgen171/2	17. What country in the world has the largest population?	Africa 0	Russia 0	New York 0	China 1
icgen181/2	18. What causes iron to rust?	Acid 0	Oxygen 1	Salt 0	Minerals 0

My classroom is a place where …

(pages 25-26 in the original booklet)

dataset variable		Certainly true	Somewhat true	Not true
iccla011/2	I like to be	2	1	0
iccla021/2	I am accepted by other children	2	1	0
iccla031/2	Work I do will help me in the future	2	1	0
iccla041/2	I feel upset	2	1	0
iccla051/2	The work we do is interesting to me	2	1	0
iccla061/2	My friends care about the work they do in school	2	1	0
iccla071/2	My teacher takes an interest in helping me with my work	2	1	0
iccla081/2	I feel unhappy	2	1	0
iccla091/2	I get on well with the other children	2	1	0
iccla101/2	I have a lot of fun	2	1	0
iccla111/2	I get excited about the work I do	2	1	0
iccla121/2	Things I learn will help me in secondary school	2	1	0
iccla131/2	I feel lonely	2	1	0
iccla141/2	My teacher treats me fairly	2	1	0
iccla151/2	I like to do extra work	2	1	0
iccla161/2	My friends try their best to get high marks	2	1	0
iccla171/2	My teacher helps me do my best	2	1	0
iccla181/2	I feel worried	2	1	0
iccla191/2	I learn things that I care about	2	1	0
iccla201/2	My friends enjoy learning	2	1	0
iccla211/2	My teacher listens to what I say	2	1	0
iccla221/2	I feel happy	2	1	0
iccla231/2	People think a lot of me	2	1	0
iccla241/2	What I learn will be useful to me when I leave school	2	1	0
iccla251/2	I feel proud to be a pupil	2	1	0
iccla261/2	My friends often get into trouble with the teacher	2	1	0
iccla271/2	I am popular with other children	2	1	0
iccla281/2	Learning is fun	2	1	0

Quiz 4
(pages 27-32 in the original booklet)

	Item	Dataset coding (scores)					Raw data coding (responses)				
		A	B	C	D	E	A	B	C	D	E
	Practice 1	(not scored)					(not recorded)				
	Practice 2	(not scored)					(not recorded)				
icpuz011/2	1	0	0	1	0	0	1	2	3	4	5
	2	(not used due to printing error in booklet)					(not retained in data, due to printing error in booklet)				
icpuz031/2	3	0	0	0	0	1	1	2	3	4	5
icpuz041/2	4	1	0	0	0	0	1	2	3	4	5
icpuz051/2	5	0	1	0	0	0	1	2	3	4	5
icpuz061/2	6	0	0	0	1	0	1	2	3	4	5
icpuz071/2	7	0	1	0	0	0	1	2	3	4	5
icpuz081/2	8	0	0	1	0	0	1	2	3	4	5
icpuz091/2	9	0	0	0	0	1	1	2	3	4	5
icpuz101/2	10	1	0	0	0	0	1	2	3	4	5
icpuz111/2	11	0	0	0	1	0	1	2	3	4	5
icpuz121/2	12	0	0	0	0	1	1	2	3	4	5
icpuz131/2	13	0	0	1	0	0	1	2	3	4	5
icpuz141/2	14	0	0	0	1	0	1	2	3	4	5
icpuz151/2	15	1	0	0	0	0	1	2	3	4	5
icpuz161/2	16	0	0	0	1	0	1	2	3	4	5
icpuz171/2	17	0	1	0	0	0	1	2	3	4	5
icpuz181/2	18	0	0	0	0	1	1	2	3	4	5
icpuz191/2	19	0	1	0	0	0	1	2	3	4	5
icpuz201/2	20	1	0	0	0	0	1	2	3	4	5
icpuz211/2	21	0	0	0	0	1	1	2	3	4	5
icpuz221/2	22	0	0	0	0	1	1	2	3	4	5
icpuz231/2	23	0	0	1	0	0	1	2	3	4	5
icpuz241/2	24	0	1	0	0	0	1	2	3	4	5

Now we would like to know more about you and what you think and do….
(pages 33-34 in the original booklet)

Raw data variable	Dataset variable		Very true	Quite true	Not true
icbh311	iccas011/2	I think it is important to fit in with my friends (e.g. choose cool clothes, do the same things together)	2	1	0
icbh321	iccas021/2	Other people sometimes think my way of talking is odd or unusual	2	1	0
icbh331	iccas031/2	I have a special interest that other people think is strange or unusual	2	1	0
icbh341	iccas041/2	Other people often tell me that my behaviour is a bit too focused on myself	2	1	0
icbh351	iccas051/2	I sometimes find it difficult to keep a conversation going	2	1	0
icbh361	iccas061/2	I like most of same hobbies and interests as my friends	2	1	0
icbh371	iccas071/2	Other people often tell me that I have a nervous habit like tapping my feet or rocking	2	1	0
icbh381	iccas081/2	I find it easy to remember facts and little details	2	1	0
icbh391	iccas091/2	I often say something rude or embarrassing by mistake	2	1	0
icbh401	iccas101/2	I like to talk about my favourite interest even if other people do not want to talk about it	2	1	0
icbh411	iccas111/2	Other people often tell me that they cannot follow what I am saying	2	1	0
icbh421	iccas121/2	I like to stick to routines even if this bothers other people	2	1	0
icbh431	iccas131/2	It is very important to me to do certain things over and over again in exactly the same way	2	1	0
icbh441	iccas141/2	I like stories and make-believe games more than numbers and facts	2	1	0
icbh451	iccas151/2	If I find something interesting, I always show it to other people	2	1	0
icbh461	iccas161/2	I sometimes find it difficult to look people in the eye	2	1	0
icbh471	iccas171/2	I find it easy to get on with other children	2	1	0
icbh481	iccas181/2	Other people are important to me	2	1	0
icbh491	iccas191/2	I care about what my friends think of me	2	1	0
icbh501	iccas201/2	I sometimes get the wrong end of the stick e.g. taking someone seriously when they are just joking	2	1	0