

Body measurements of boys and girls from birth up to 16.9 years —

Part 2: Recommendations of body dimensions for children

Confirmed
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Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Textiles and Clothing Standards Policy Committee (TCM/-) to Technical Committee TCM/36, upon which the following bodies were represented:

- Association for Consumer Research (ACRE)
- British Clothing Industry Association
- British Retailers' Association
- British Shops and Stores Association (BSSA)
- Child Accident Prevention Trust
- Clothing and Footwear Institute
- Co-operative Wholesale Society Ltd
- Consumer Policy Committee of BSI
- Knitting Industries Federation Ltd
- Mail Order Traders' Association
- Manchester Polytechnic, Hollings Faculty
- Ministry of Defence
- National Children's Wear Association
- Retail Consortium
- Textile Distributors Association
- Textile Research Council (HATRA)

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Foreword

This Part of BS 7231 has been prepared under the direction of the Textiles and Clothing Standards Policy Committee. A series of four size survey studies formed the basis for the data which are contained in Part 1 of BS 7231. This Part contains recommended size charts for use by garment manufacturers, derived from the data in Part 1. The measurements in these tables have been carefully selected to be of maximum use to garment manufacturers and pattern technicians. In the range from birth to 4.9 years, the measurements for both sexes are grouped together. In the range from 5 years to 16.9 years, some of the measurements are slightly different, since it was necessary to use some different points for babies, older girls and older boys. The measurements have been rounded to the nearest centimetre or 0.5 cm.

The tables are arranged under 6 cm size intervals. The six centimetre interval is also expressed in tables as approximate age spans because the average height of children increases by about 12 cm from birth to 6 months then 6 cm to 12 months, then 6 cm every 3 months until 2 years, and thereafter by an average of 6 cm per year until fully grown. This height interval is also commonly used in European countries as well as in several other countries in the world.

There are two sets of tables in this Part, each set representing a different combination of centiles, a centile being one of 99 values which divide a variable into 100 groups with equal frequency. The first set of tables uses the 50th centile for height and 50th centile for girth, these being known as the median average measurements of children in the surveys.

The second set of tables uses the 75th centile for height and the 60th centile for girth. Garments made from this set of tables will thus be longer than the average and slightly more roomy. They will tend to favour the children who are in the upper sector of each height interval, rather than those who are in the middle. This combination was chosen following detailed discussions with a wide representation of the children's retailing and manufacturing trades, who take the view that garments can usually be shortened after purchase and that it is advisable to make them slightly roomy to allow for growth.

It is stressed, however, that no matter which combination of percentiles are used, the tables give *body measurements* and not *garment measurements*. In constructing patterns, technicians should use whatever allowances they consider necessary for the style of garment they are manufacturing. It is also recommended that technicians should take care to identify the children's measurement points that are used in these tables, in case they are slightly different from those that they have used hitherto.

In addition to the tables showing body measurements, recommendations regarding labels are included. The girth recommendations are body measurements and not garment measurements. These recommendations represent the minimum required on the labels, and manufacturers are free to provide whatever additional measurements they consider advisable for each style of garment. It is strongly recommended that the information regarding sizing should be given on a sew-in label rather than on a swing ticket.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 10, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

1 Scope

This British Standard gives recommendations of body dimensions for children. Recommendations concerning items of information to be used on labels are also included.

NOTE The titles of the publications referred to in this standard are listed on the inside back cover.

2 Examples of information to be used on the garment label

Examples of information on garment labels are shown in Figure 1.

NOTE The order in which the items are included on the label is of great importance. See BS 3728 which specifies the order of importance of the control dimensions.

3 Body dimensions

Body dimensions of children are given in Table 2 to Table 7. A key to the measurements taken and abbreviations used is described in Table 1.

Figure 2 to Figure 5 show the location of the relevant measurements.

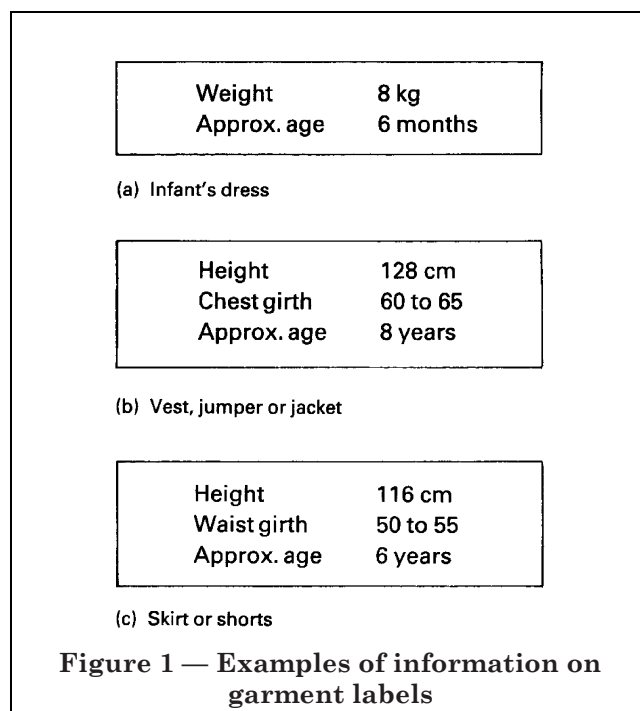


Table 1 — Key to the abbreviations used in all surveys

Dimension	Boys	Girls	Infants	Babies	Abbreviation
00 Age	✓	✓	✓	✓	Age
01 Weight	✓	✓	✓	✓	BWgt
10 Stature (Height)	✓	✓	✓	✓	Stat
11 Crown-Crotch				✓	CwCr
12 Cervicale-Foot		✓	✓		CeFt
20 Cervicale-Brow			✓	✓	CeBr
21 Head Arc	✓		✓	✓	HdAr
22 Head Girth		✓	✓	✓	HdGr
23 Neck Girth (at larynx)	✓	✓		✓	NkG(l)
24 Mid Neck Girth					MNGr
25 Neck Base Girth		✓	✓		NBGr
30 Short Shoulder Length		✓	✓		SSle
31 Shoulder Length (to acromiom)		<i>d</i> ^a	✓	✓	ShLe
32 Arm Scye Length		✓			ASLe
33 Arm Scye Depth				✓	ASDe
34 Arm Scye Width	✓	✓			ASWd
35 Arm Scye Girth	✓	✓	✓		ASGr
36 Interacromiom (bony shoulder width)	✓	✓	✓		InAc
37 Shoulder Breadth (fleshy)					ShBr
38 Shoulder Width	✓			✓	ShWd
40 Axillary Width (back)			✓	✓	AxW(bk)
41 Axillary Width (front)			✓	✓	AxW(fr)
42 Back Width		✓			BkWd
43 Chest Width		✓			ChWd
44 Chest Width (anthropometer)		✓			ChW(ap)
45 Bust Arc Width	✓	✓			BAWd
46 Chest Girth		✓	✓	✓	ChGr

NOTE The particular age groups in which the data were surveyed are identified above by ticks.

^a *d* = derived (calculated) measure