

## 5.0 Care for measurement equipment

Proper care for the scale and length/height boards is important to ensure that measurements are as accurate as possible. Keep the equipment clean and store it at normal indoor temperature, protected from humidity and wetness.

The Uniscale will not function if it is too hot or if there is too little light. If the scale is hot, let it cool. If there is not enough light, move closer to a light source. When taring the scale, do not rub the solar panel with your foot or it will become worn; instead, simply block the light by covering it.

The accuracy of equipment should be checked at the time of purchase. Thereafter, check the scale and measuring boards weekly, e.g. every Monday or Saturday.

### **To check the scale:**

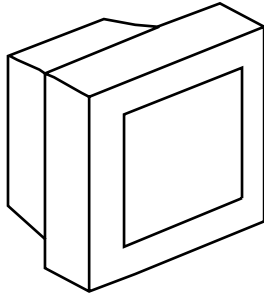
- Weigh known weights of 3, 5, 10, and 20 kg.
- Check tared weighing by weighing a 20 kg weight, taring the scale, and then adding a 3 kg weight. The 3 kg weight should be displayed.
- If the weights are not accurate, calibrate the scale if possible. Otherwise, if the error is consistent (e.g. off by +0.2 kg consistently), adjust measurements accordingly (e.g. by subtracting 0.2 kg). Monitor the situation, as the amount of error may change. If measurements are off by variable amounts, notify the responsible officer that the scale needs to be replaced.

### **To check the length/height boards:**

When assembling the length/height boards, measure rods of known length to check that they are assembled correctly.

Check that the joints are tight and straight. If not, tighten or straighten them.

Check that the measuring tape can be read. If it is too worn to be read, it should be replaced.

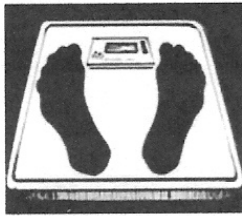


**Video demonstration of  
measuring weight and length/height  
and caring for equipment**

*At this point the facilitator will show the sections of the Anthropometry Training Video related to measuring weight, length and height (about 8 minutes) and caring for equipment (about 3 minutes).*

**Live demonstration of checking equipment and  
measuring weight and length/height**

*This demonstration will take place with real equipment in a clinic setting or in the classroom. Facilitators will demonstrate checking the scale and measuring boards. Facilitators will also demonstrate weighing and measuring using the equipment available.*



## Exercise C

### Measuring weight, length, and height

This will be a practical exercise in a clinic setting, or in the classroom if children and measuring equipment can be brought there. The mothers should be present, if possible, to tell the children's dates of birth and to assist with measuring and reassuring them.

Your facilitator will assign you to work in pairs. Each pair should do the following steps for at least two children, one who is less than 2 years old and one who is 2–5 years old.

- Review records or ask the mother to determine the child's name, sex, and date of birth. Record this information in the inset box below on the left.
- Use the age calculator to determine the child's age today.
- Make a visual assessment of the child (e.g. does the child appear thin, fat, active, lethargic)?
- Observe the child for signs of marasmus or kwashiorkor. If there is any apparent oedema, test for oedema of both feet.
- Weigh the child.
- Measure the child's length or height.
- Record results on the Visit Notes page below.

Each person  
take a turn.

You will learn to complete the BMI column later in the module.

### Visit Notes

Date	Age today (Completed years/months or weeks)	Measurements (Record below; then plot on charts)			Reason for visit, observations, recommendations
		Weight (kg)	Length/Height (cm)	BMI	
Child 1: Sex: DOB:					
Child 2: Sex: DOB:					
Child 3: Sex: DOB:					
Child 4: Sex: DOB:					

## 6.0 Determine BMI (body mass index)

BMI is a number that associates a person's weight with his or her height/length. BMI can be a useful growth indicator when it is plotted on a graph against a child's age. BMI is calculated as follows:

$$\text{Weight in kg} \div \text{squared height/length in metres}$$

Another way to show the formula is  $\text{kg/m}^2$ . (If the measurements are recorded in pounds and inches, convert them to metric units before calculating BMI: 1 inch = 2.54 cm or 0.0254 m, and 1 pound = 0.4536 kg.) BMI is rounded to one decimal place.

It is very important to use a **length** measurement for a child less than 2 years old and a **height** measurement for a child age 2 years or older. If necessary, convert height to length (by adding 0.7 cm) or length to height (by subtracting 0.7 cm) before determining the child's BMI.<sup>1</sup>

If you have a calculator with an  $x^2$  button, it is relatively simple to calculate a child's BMI as follows:

- 1) Type in the weight in kg (to the nearest 0.1 kg).
- 2) Press the / or  $\div$  sign.
- 3) Type in the height or length in metres. (*This will require expressing centimetres as metres; for example, 82.3 centimetres is expressed as 0.823 metres.*)
- 4) Press the  $x^2$  button. The height squared is displayed.
- 5) Press the = button. The BMI is displayed.
- 6) Round the BMI to one decimal place and record the BMI on the Visit Notes page of the *Growth Record*.

If your calculator lacks an  $x^2$  button, follow steps 1-3, repeat steps 2 and 3, and then press the = button to display the BMI. If you have no calculator, consult a table that shows BMIs for various weights and lengths or heights. A BMI table is provided in the annex of this module (page 35) and in the job-aid titled *Weighing and measuring a child* provided with this course. The same table may be used for all children up to age 5.

To use the BMI table:

- Find the child's length or height (in centimetres) in the far left column of the table. If the exact measurement is not shown, select the closest one. If the child's measurement is halfway between those shown, select the next higher measurement.
- Look across the row to find the child's weight. If the exact weight is not shown, select the closest one. If the weight is halfway between those shown, consider it "on the line."
- Trace your finger upward from the weight to find the child's BMI on the top row of the table. (Or you can trace downward, as the BMIs are also on the bottom row.) If the weight was "on the line," the BMI will be halfway between those shown, e.g. 15.5 if between 15 and 16.
- Record the BMI on the Visit Notes page of the *Growth Record*.

---

<sup>1</sup> The BMI table and BMI-for-age charts in the *Growth Record* were constructed using length for children under 2 years and height for children aged 2 years and older.

### Example

Following is an excerpt from the BMI table shown in the annex of this module. This example shows how to use the BMI table for a girl named Amani, who is age 2 years and 4 months.

- Amani’s height is 88.2 cm. The closest height in the far left column of the table is 88 cm (circled below).
- Amani’s weight is 11.5 kg. The closest weight on the row for her height is 11.6 kg.
- Tracing a finger upward from Amani’s weight, you find that her BMI (on the top row of the table) is 15.

L or H (cm)	Body Mass Index (BMI)																		L or H (cm)	
	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25		26
84	5.6	6.4	7.1	7.8	8.5	9.2	9.9	10.6	11.3	12.0	12.7	13.4	14.1	14.8	15.5	16.2	16.9	17.6	18.3	84
85	5.8	6.5	7.2	7.9	8.7	9.4	10.1	10.8	11.6	12.3	13.0	13.7	14.5	15.2	15.9	16.6	17.3	18.1	18.8	85
86	5.9	6.7	7.4	8.1	8.9	9.6	10.4	11.1	11.8	12.6	13.3	14.1	14.8	15.5	16.3	17.0	17.8	18.5	19.2	86
87	6.1	6.8	7.6	8.3	9.1	9.8	10.6	11.4	12.1	12.9	13.6	14.4	15.1	15.9	16.7	17.4	18.2	18.9	19.7	87
88	6.2	7.0	7.7	8.5	9.3	10.1	10.9	11.6	12.4	13.2	13.9	14.7	15.5	16.3	17.0	17.8	18.6	19.4	20.1	88
89	6.3	7.1	7.9	8.7	9.5	10.3	11.1	11.9	12.7	13.5	14.3	15.0	15.8	16.6	17.4	18.2	19.0	19.8	20.6	89
90	6.5	7.3	8.1	8.9	9.7	10.5	11.3	12.2	13.0	13.8	14.6	15.4	16.2	17.0	17.8	18.6	19.4	20.3	21.1	90
91	6.6	7.5	8.3	9.1	9.9	10.8	11.6	12.4	13.2	14.1	14.9	15.7	16.6	17.4	18.2	19.0	19.9	20.7	21.5	91
92	6.8	7.6	8.5	9.3	10.2	11.0	11.8	12.7	13.5	14.4	15.2	16.1	16.9	17.8	18.6	19.5	20.3	21.2	22.0	92

If you wish to use the mathematical formula ( $\text{kg/m}^2$ ) and a calculator to determine Amani’s BMI, it is necessary to express her height in metres. Her height of 88.2 cm is expressed as 0.882 m. Her BMI is calculated as follows:

$$11.5 \text{ kg} \div 0.882 \text{ m}^2 = 14.78\dots, \text{ which would be recorded as 14.8 in the Visit Notes}$$

As you can see, the results of using the BMI table and the calculator are very close.

**Reminder:** If a child has oedema of both feet, do not determine the child’s BMI, as his weight is unrealistically high due to fluid retention. Refer the child with oedema of both feet for specialized care.

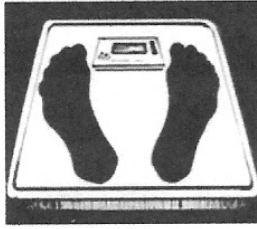


**SHORT ANSWER EXERCISE**

Use the BMI table in the annex of this module (also in the job-aid titled *Measuring and weighing children*) to find the BMI of the following children. If you have a calculator also calculate the BMI using your calculator and compare the result.

1. A 3-year-old child is 100 cm in height and weighs 14.0 kg.
2. An 18-month-old child is 78.8 cm in length and weighs 11.2 kg.
3. A 4-year-old child is 118.5 cm in height and weighs 22.5 kg.
4. A newborn is 48.2 cm in length and weighs 3.1 kg.

**When you have finished this exercise, compare your answers to those given on page 34 at the end of this module. If you have questions, talk with a facilitator.**



## Exercise D

### Determining BMI

In this exercise you will find the BMIs for the children whom you measured in Exercise C. You may use the BMI table or a calculator to determine the BMIs. Record the BMIs on the Visit Notes page provided in Exercise C.

**When you have finished this exercise, compare your answers with those of another participant who measured the same children. Consult with a facilitator as needed.**



## Exercise E

### Continuing Case Studies – Nalah and Toman

In Exercise B you began a *Girl's Growth Record* for Nalah and a *Boy's Growth Record* for Toman. In this exercise you will enter additional information from a series of visits by each child on the Visit Notes page, and determine age and BMI at each visit. You may use either a calculator or the BMI table to determine BMI.

#### Nalah

On the Visit Notes page of Nalah's *Girl's Growth Record*, you have already recorded some information from her visit of 25 March 2006, when she was 6 weeks old. Open her Growth Record to the Visit Notes.

1. Nalah's weight at 6 weeks was 3.5 kg and her length was 51.3 cm. Record her weight and length at 6 weeks on the Visit Notes page. Determine her BMI and record it in the Visit Notes as well.
2. Following is information from four subsequent visits by Nalah. Enter this information on the Visit Notes page. Determine Nalah's age and BMI at each visit and enter those as well.

Date of visit	Weight	Length	Reason for visit
20 April 2006	4.2 kg	54.8 cm	immunization
22 May 2006	4.3 kg	54.8 cm	diarrhoea
26 June 2006	4.8 kg	56.2 cm	immunization
15 August 2006	5.4 kg	58.1 cm	well-baby visit



## Toman

On the Visit Notes page of Toman's *Boy's Growth Record*, you have already recorded some information from his visit of 15 August 2006, when he was 1 year and 1 month old. Open his *Growth Record* to the Visit Notes.

1. Toman's weight at 1 year and 1 month old was 11.9 kg and his length was 79.0 cm. Record his weight and length at this age on the Visit Notes page. Determine his BMI and record it as well.
2. Following is information from three subsequent visits by Toman. Enter this information on the Visit Notes page. Determine Toman's age and BMI at each visit and enter those as well.

Date of visit	Weight	Length/Height	Reason for visit
15 December 2006	13.5 kg	84.5 cm	well-child visit
16 March 2007	15.0 kg	87.0 cm	ear pain
12 July 2007	16.8 kg	90.9 cm	well-child visit

**When you have finished this exercise,  
review your answers with a facilitator.**

## Answers to short answer exercises

### Page 24

1. 94.2 cm
2. 74.6 cm (*This is the last line that can actually be seen.*)
3. Length is 92.0 cm. (*This is the last line that can actually be seen.*) Subtract 0.7 cm to convert length to height. Recorded height should be 91.3 cm

### Page 30

*The BMI found by using the BMI table is listed first. The calculated BMI is listed second.*

1. 14    *or*  $14 / 1.00^2 = 14.0$
2. 18    *or*  $11.2 / 0.788^2 = 18.03\dots$  (round to 18.0)
3. 16    *or*  $22.5 / 1.185^2 = 16.02\dots$  (round to 16.0)
4. 13.5    *or*  $3.1 / 0.482^2 = 13.34\dots$  (round to 13.3)

## Annex: BMI table

L or H (cm)	Body Mass Index (BMI)																		L or H (cm)	
	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25		26
42	1.4	1.6	1.8	1.9	2.1	2.3	2.5	2.6	2.8	3.0	3.2	3.4	3.5	3.7	3.9	4.1	4.2	4.4	4.6	42
43	1.5	1.7	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.1	3.3	3.5	3.7	3.9	4.1	4.3	4.4	4.6	4.8	43
44	1.5	1.7	1.9	2.1	2.3	2.5	2.7	2.9	3.1	3.3	3.5	3.7	3.9	4.1	4.3	4.5	4.6	4.8	5.0	44
45	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.1	4.3	4.5	4.7	4.9	5.1	5.3	45
46	1.7	1.9	2.1	2.3	2.5	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.2	4.4	4.7	4.9	5.1	5.3	5.5	46
47	1.8	2.0	2.2	2.4	2.7	2.9	3.1	3.3	3.5	3.8	4.0	4.2	4.4	4.6	4.9	5.1	5.3	5.5	5.7	47
48	1.8	2.1	2.3	2.5	2.8	3.0	3.2	3.5	3.7	3.9	4.1	4.4	4.6	4.8	5.1	5.3	5.5	5.8	6.0	48
49	1.9	2.2	2.4	2.6	2.9	3.1	3.4	3.6	3.8	4.1	4.3	4.6	4.8	5.0	5.3	5.5	5.8	6.0	6.2	49
50	2.0	2.3	2.5	2.8	3.0	3.3	3.5	3.8	4.0	4.3	4.5	4.8	5.0	5.3	5.5	5.8	6.0	6.3	6.5	50
51	2.1	2.3	2.6	2.9	3.1	3.4	3.6	3.9	4.2	4.4	4.7	4.9	5.2	5.5	5.7	6.0	6.2	6.5	6.8	51
52	2.2	2.4	2.7	3.0	3.2	3.5	3.8	4.1	4.3	4.6	4.9	5.1	5.4	5.7	5.9	6.2	6.5	6.8	7.0	52
53	2.2	2.5	2.8	3.1	3.4	3.7	3.9	4.2	4.5	4.8	5.1	5.3	5.6	5.9	6.2	6.5	6.7	7.0	7.3	53
54	2.3	2.6	2.9	3.2	3.5	3.8	4.1	4.4	4.7	5.0	5.2	5.5	5.8	6.1	6.4	6.7	7.0	7.3	7.6	54
55	2.4	2.7	3.0	3.3	3.6	3.9	4.2	4.5	4.8	5.1	5.4	5.7	6.1	6.4	6.7	7.0	7.3	7.6	7.9	55
56	2.5	2.8	3.1	3.4	3.8	4.1	4.4	4.7	5.0	5.3	5.6	6.0	6.3	6.6	6.9	7.2	7.5	7.8	8.2	56
57	2.6	2.9	3.2	3.6	3.9	4.2	4.5	4.9	5.2	5.5	5.8	6.2	6.5	6.8	7.1	7.5	7.8	8.1	8.4	57
58	2.7	3.0	3.4	3.7	4.0	4.4	4.7	5.0	5.4	5.7	6.1	6.4	6.7	7.1	7.4	7.7	8.1	8.4	8.7	58
59	2.8	3.1	3.5	3.8	4.2	4.5	4.9	5.2	5.6	5.9	6.3	6.6	7.0	7.3	7.7	8.0	8.4	8.7	9.1	59
60	2.9	3.2	3.6	4.0	4.3	4.7	5.0	5.4	5.8	6.1	6.5	6.8	7.2	7.6	7.9	8.3	8.6	9.0	9.4	60
61	3.0	3.3	3.7	4.1	4.5	4.8	5.2	5.6	6.0	6.3	6.7	7.1	7.4	7.8	8.2	8.6	8.9	9.3	9.7	61
62	3.1	3.5	3.8	4.2	4.6	5.0	5.4	5.8	6.2	6.5	6.9	7.3	7.7	8.1	8.5	8.8	9.2	9.6	10.0	62
63	3.2	3.6	4.0	4.4	4.8	5.2	5.6	6.0	6.4	6.7	7.1	7.5	7.9	8.3	8.7	9.1	9.5	9.9	10.3	63
64	3.3	3.7	4.1	4.5	4.9	5.3	5.7	6.1	6.6	7.0	7.4	7.8	8.2	8.6	9.0	9.4	9.8	10.2	10.6	64
65	3.4	3.8	4.2	4.6	5.1	5.5	5.9	6.3	6.8	7.2	7.6	8.0	8.5	8.9	9.3	9.7	10.1	10.6	11.0	65
66	3.5	3.9	4.4	4.8	5.2	5.7	6.1	6.5	7.0	7.4	7.8	8.3	8.7	9.1	9.6	10.0	10.5	10.9	11.3	66
67	3.6	4.0	4.5	4.9	5.4	5.8	6.3	6.7	7.2	7.6	8.1	8.5	9.0	9.4	9.9	10.3	10.8	11.2	11.7	67
68	3.7	4.2	4.6	5.1	5.5	6.0	6.5	6.9	7.4	7.9	8.3	8.8	9.2	9.7	10.2	10.6	11.1	11.6	12.0	68
69	3.8	4.3	4.8	5.2	5.7	6.2	6.7	7.1	7.6	8.1	8.6	9.0	9.5	10.0	10.5	11.0	11.4	11.9	12.4	69
70	3.9	4.4	4.9	5.4	5.9	6.4	6.9	7.4	7.8	8.3	8.8	9.3	9.8	10.3	10.8	11.3	11.8	12.3	12.7	70
71	4.0	4.5	5.0	5.5	6.0	6.6	7.1	7.6	8.1	8.6	9.1	9.6	10.1	10.6	11.1	11.6	12.1	12.6	13.1	71
72	4.1	4.7	5.2	5.7	6.2	6.7	7.3	7.8	8.3	8.8	9.3	9.8	10.4	10.9	11.4	11.9	12.4	13.0	13.5	72
73	4.3	4.8	5.3	5.9	6.4	6.9	7.5	8.0	8.5	9.1	9.6	10.1	10.7	11.2	11.7	12.3	12.8	13.3	13.9	73
74	4.4	4.9	5.5	6.0	6.6	7.1	7.7	8.2	8.8	9.3	9.9	10.4	11.0	11.5	12.0	12.6	13.1	13.7	14.2	74
75	4.5	5.1	5.6	6.2	6.8	7.3	7.9	8.4	9.0	9.6	10.1	10.7	11.3	11.8	12.4	12.9	13.5	14.1	14.6	75
76	4.6	5.2	5.8	6.4	6.9	7.5	8.1	8.7	9.2	9.8	10.4	11.0	11.6	12.1	12.7	13.3	13.9	14.4	15.0	76
77	4.7	5.3	5.9	6.5	7.1	7.7	8.3	8.9	9.5	10.1	10.7	11.3	11.9	12.5	13.0	13.6	14.2	14.8	15.4	77
78	4.9	5.5	6.1	6.7	7.3	7.9	8.5	9.1	9.7	10.3	11.0	11.6	12.2	12.8	13.4	14.0	14.6	15.2	15.8	78
79	5.0	5.6	6.2	6.9	7.5	8.1	8.7	9.4	10.0	10.6	11.2	11.9	12.5	13.1	13.7	14.4	15.0	15.6	16.2	79
80	5.1	5.8	6.4	7.0	7.7	8.3	9.0	9.6	10.2	10.9	11.5	12.2	12.8	13.4	14.1	14.7	15.4	16.0	16.6	80
81	5.2	5.9	6.6	7.2	7.9	8.5	9.2	9.8	10.5	11.2	11.8	12.5	13.1	13.8	14.4	15.1	15.7	16.4	17.1	81
82	5.4	6.1	6.7	7.4	8.1	8.7	9.4	10.1	10.8	11.4	12.1	12.8	13.4	14.1	14.8	15.5	16.1	16.8	17.5	82
83	5.5	6.2	6.9	7.6	8.3	9.0	9.6	10.3	11.0	11.7	12.4	13.1	13.8	14.5	15.2	15.8	16.5	17.2	17.9	83
	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	

L or H (cm)	Body Mass Index (BMI)																		L or H (cm)	
	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25		26
84	5.6	6.4	7.1	7.8	8.5	9.2	9.9	10.6	11.3	12.0	12.7	13.4	14.1	14.8	15.5	16.2	16.9	17.6	18.3	84
85	5.8	6.5	7.2	7.9	8.7	9.4	10.1	10.8	11.6	12.3	13.0	13.7	14.5	15.2	15.9	16.6	17.3	18.1	18.8	85
86	5.9	6.7	7.4	8.1	8.9	9.6	10.4	11.1	11.8	12.6	13.3	14.1	14.8	15.5	16.3	17.0	17.8	18.5	19.2	86
87	6.1	6.8	7.6	8.3	9.1	9.8	10.6	11.4	12.1	12.9	13.6	14.4	15.1	15.9	16.7	17.4	18.2	18.9	19.7	87
88	6.2	7.0	7.7	8.5	9.3	10.1	10.8	11.6	12.4	13.2	13.9	14.7	15.5	16.3	17.0	17.8	18.6	19.4	20.1	88
89	6.3	7.1	7.9	8.7	9.5	10.3	11.1	11.9	12.7	13.5	14.3	15.0	15.8	16.6	17.4	18.2	19.0	19.8	20.6	89
90	6.5	7.3	8.1	8.9	9.7	10.5	11.3	12.2	13.0	13.8	14.6	15.4	16.2	17.0	17.8	18.6	19.4	20.3	21.1	90
91	6.6	7.5	8.3	9.1	9.9	10.8	11.6	12.4	13.2	14.1	14.9	15.7	16.6	17.4	18.2	19.0	19.9	20.7	21.5	91
92	6.8	7.6	8.5	9.3	10.2	11.0	11.8	12.7	13.5	14.4	15.2	16.1	16.9	17.8	18.6	19.5	20.3	21.2	22.0	92
93	6.9	7.8	8.6	9.5	10.4	11.2	12.1	13.0	13.8	14.7	15.6	16.4	17.3	18.2	19.0	19.9	20.8	21.6	22.5	93
94	7.1	8.0	8.8	9.7	10.6	11.5	12.4	13.3	14.1	15.0	15.9	16.8	17.7	18.6	19.4	20.3	21.2	22.1	23.0	94
95	7.2	8.1	9.0	9.9	10.8	11.7	12.6	13.5	14.4	15.3	16.2	17.1	18.1	19.0	19.9	20.8	21.7	22.6	23.5	95
96	7.4	8.3	9.2	10.1	11.1	12.0	12.9	13.8	14.7	15.7	16.6	17.5	18.4	19.4	20.3	21.2	22.1	23.0	24.0	96
97	7.5	8.5	9.4	10.3	11.3	12.2	13.2	14.1	15.1	16.0	16.9	17.9	18.8	19.8	20.7	21.6	22.6	23.5	24.5	97
98	7.7	8.6	9.6	10.6	11.5	12.5	13.4	14.4	15.4	16.3	17.3	18.2	19.2	20.2	21.1	22.1	23.0	24.0	25.0	98
99	7.8	8.8	9.8	10.8	11.8	12.7	13.7	14.7	15.7	16.7	17.6	18.6	19.6	20.6	21.6	22.5	23.5	24.5	25.5	99
100	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0	100
101	8.2	9.2	10.2	11.2	12.2	13.3	14.3	15.3	16.3	17.3	18.4	19.4	20.4	21.4	22.4	23.5	24.5	25.5	26.5	101
102	8.3	9.4	10.4	11.4	12.5	13.5	14.6	15.6	16.6	17.7	18.7	19.8	20.8	21.8	22.9	23.9	25.0	26.0	27.1	102
103	8.5	9.5	10.6	11.7	12.7	13.8	14.9	15.9	17.0	18.0	19.1	20.2	21.2	22.3	23.3	24.4	25.5	26.5	27.6	103
104	8.7	9.7	10.8	11.9	13.0	14.1	15.1	16.2	17.3	18.4	19.5	20.6	21.6	22.7	23.8	24.9	26.0	27.0	28.1	104
105	8.8	9.9	11.0	12.1	13.2	14.3	15.4	16.5	17.6	18.7	19.8	20.9	22.1	23.2	24.3	25.4	26.5	27.6	28.7	105
106	9.0	10.1	11.2	12.4	13.5	14.6	15.7	16.9	18.0	19.1	20.2	21.3	22.5	23.6	24.7	25.8	27.0	28.1	29.2	106
107	9.2	10.3	11.4	12.6	13.7	14.9	16.0	17.2	18.3	19.5	20.6	21.8	22.9	24.0	25.2	26.3	27.5	28.6	29.8	107
108	9.3	10.5	11.7	12.8	14.0	15.2	16.3	17.5	18.7	19.8	21.0	22.2	23.3	24.5	25.7	26.8	28.0	29.2	30.3	108
109	9.5	10.7	11.9	13.1	14.3	15.4	16.6	17.8	19.0	20.2	21.4	22.6	23.8	25.0	26.1	27.3	28.5	29.7	30.9	109
110	9.7	10.9	12.1	13.3	14.5	15.7	16.9	18.2	19.4	20.6	21.8	23.0	24.2	25.4	26.6	27.8	29.0	30.3	31.5	110
111	9.9	11.1	12.3	13.6	14.8	16.0	17.2	18.5	19.7	20.9	22.2	23.4	24.6	25.9	27.1	28.3	29.6	30.8	32.0	111
112	10.0	11.3	12.5	13.8	15.1	16.3	17.6	18.8	20.1	21.3	22.6	23.8	25.1	26.3	27.6	28.9	30.1	31.4	32.6	112
113	10.2	11.5	12.8	14.0	15.3	16.6	17.9	19.2	20.4	21.7	23.0	24.3	25.5	26.8	28.1	29.4	30.6	31.9	33.2	113
114	10.4	11.7	13.0	14.3	15.6	16.9	18.2	19.5	20.8	22.1	23.4	24.7	26.0	27.3	28.6	29.9	31.2	32.5	33.8	114
115	10.6	11.9	13.2	14.5	15.9	17.2	18.5	19.8	21.2	22.5	23.8	25.1	26.5	27.8	29.1	30.4	31.7	33.1	34.4	115
116	10.8	12.1	13.5	14.8	16.1	17.5	18.8	20.2	21.5	22.9	24.2	25.6	26.9	28.3	29.6	30.9	32.3	33.6	35.0	116
117	11.0	12.3	13.7	15.1	16.4	17.8	19.2	20.5	21.9	23.3	24.6	26.0	27.4	28.7	30.1	31.5	32.9	34.2	35.6	117
118	11.1	12.5	13.9	15.3	16.7	18.1	19.5	20.9	22.3	23.7	25.1	26.5	27.8	29.2	30.6	32.0	33.4	34.8	36.2	118
119	11.3	12.7	14.2	15.6	17.0	18.4	19.8	21.2	22.7	24.1	25.5	26.9	28.3	29.7	31.2	32.6	34.0	35.4	36.8	119
120	11.5	13.0	14.4	15.8	17.3	18.7	20.2	21.6	23.0	24.5	25.9	27.4	28.8	30.2	31.7	33.1	34.6	36.0	37.4	120
121	11.7	13.2	14.6	16.1	17.6	19.0	20.5	22.0	23.4	24.9	26.4	27.8	29.3	30.7	32.2	33.7	35.1	36.6	38.1	121
122	11.9	13.4	14.9	16.4	17.9	19.3	20.8	22.3	23.8	25.3	26.8	28.3	29.8	31.3	32.7	34.2	35.7	37.2	38.7	122
123	12.1	13.6	15.1	16.6	18.2	19.7	21.2	22.7	24.2	25.7	27.2	28.7	30.3	31.8	33.3	34.8	36.3	37.8	39.3	123
124	12.3	13.8	15.4	16.9	18.5	20.0	21.5	23.1	24.6	26.1	27.7	29.2	30.8	32.3	33.8	35.4	36.9	38.4	40.0	124
125	12.5	14.1	15.6	17.2	18.8	20.3	21.9	23.4	25.0	26.6	28.1	29.7	31.3	32.8	34.4	35.9	37.5	39.1	40.6	125
	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	