



How tall will you be?

It has been found that at two years of age a child, on average, is almost exactly half its final height. By using the table below it is possible to predict at any age how tall you will end up. It is calculated by the percentage you are of your adult height at these ages.

Age now	7	8	9	10	11	12	13	14	15	16	17	18
Percentage of adult height boys	69	72	75	78	81	84	87	92	96	98	99	100
Percentage of adult height girls	74	78	81	84	88	93	97	98	99	100	100	100

1. Calculate how tall you may end up.

Example if you are a girl, 12 years old and 140 cm tall.

So 93 % of your adult height is 140 cm

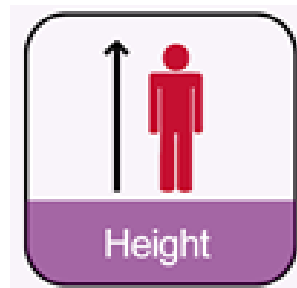
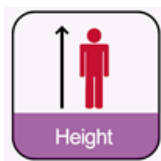
$$1 \% \text{ of your adult height is } \frac{140}{93} = 1.505$$

$$100 \% \text{ of your adult height is } 1.505 \times 100 = 150 \text{ cm.}$$

Now do a similar calculation for your height.

Word of warning – This is, of course, subject to much variation and will not be accurate in most cases.

2. Can you list reasons for this method not being accurate for some children?



Average Heights

	2 years	6 years	10 years	14 years	18 years	22 years
Girls	86cm	112cm	135cm	157cm	160cm	160cm
Boys	86cm	114cm	137cm	160cm	173cm	175cm

3. Do you think you are going to be above or below the average?
Calculate your predicted height.