****

**Setting up equations:**

The rules for setting an equation are:

* The value that is not known or to be found is assigned a variable.
* Then the expressions are formed as per the conditions given in the question.
* Finally, the expressions are equated with values given in the question.

Example



The value that is not known or to be found is assigned a variable.

Let the number of chocolates that the boy initially had =x

Then the expressions are formed as per the conditions given in the question.

Number of chocolates given to the sister =2

Number of chocolates that the boy is left with = 2(given)

Number of chocolates that the boy is left with = Initial of number chocolates he had – no of chocolates given to the girl = x-2 =2

Finally, the expressions are equated with values given in the question.

Number of chocolates that the boy is left with:

x-3 =2

Therefore, the equation set up is x-3 = 2.

Problem Write equations for the following statements:

(i)Laxmi’s father is 49 years old. He is 4 years older than three times Laxmi’s age. (Take Laxmi’s age to be *y*years.)



The value that is not known or to be found is assigned a variable.

Let the age of Laxmi=*y*  years

Then the expressions are formed as per the conditions given in the question.

Laxmi’s father age = 49

Laxmi’s father’s is 4 years older than three times Laxmi’s age

Laxmi’s fathers age = 4+3y

Finally, the expressions are equated with values given in the question.

4 + 3y =49

Therefore, the equation set up is 4+3y =49.