

Translating- Using Relationships

Translate into variables:

One number is five more than another. \longrightarrow

Translate into equations:

Twice the smaller number equals the larger number less 4.

Bill is 6 years younger than Nikki. \longrightarrow

In five years, twice Bill's will be seventeen less than Nikki's age.

Mr. Brown is twice as old as his son Ronald. \longrightarrow The sum of their ages is 93

The sum of two numbers is 34. \longrightarrow The difference between the numbers is 26.

There are three consecutive numbers. \longrightarrow The sum of the largest and smallest number is 40.

There are 5 more dimes than nickels. \longrightarrow The value of the coins is \$2.75.

The smaller number is one more than half of the larger. \longrightarrow The smaller number increased by the larger number results in 16.

Which statement is the variable clue and which is the equation clue?

Toby weighed 10 kg more than Morris. \longleftrightarrow The sum of their weights is 56 kg.

There were equal numbers of dimes, quarters and nickels. \longleftrightarrow There is a total of \$4.80 in coins.

The sum of Sandra and Anita's ages is 58. \longleftrightarrow Next year, Sandra will be three times as old as Anita.

Andy's weighs 5 kg less than twice his brother. \longleftrightarrow Together they weigh 100 kg.

In a piggy bank composed of nickels and quarters there is \$26.10. \longleftrightarrow There are 18 more quarters than nickels.

In a change box, there are 9 more dimes than nickels and twelve more quarters than dimes. \longleftrightarrow The change box has \$12.15 in it.

Of two numbers, one is 7 more than the other. \longleftrightarrow Their sum is 21.

Find 3 consecutive odd integers such that the sum of the smallest and 4 times the largest is 61.

Find two consecutive even integers such that the sum of the larger and twice the smaller is 62