

Example 1: What is $2x + x$?

Solution: Think of x as representing an orange, if you have two oranges and add one orange you will have three oranges,

$$2x + x = 3x$$

Example 2: What is $5x + 2x$?

Solution: Again think of oranges, if you have five oranges and add two more you will have a total of seven oranges,

$$5x + 2x = 7x$$

It's now time for you to try some exercises on your own, write your answers in the following boxes below the questions. You will find the answers at the end of the exercise.

1: What is $3x + 4x$?

2: What is $4x + 5x$?

3: What is $6x + 5x$?

4: What is $7x + 7x$?

Fact File 2.1 Technology - Duration of music on a CD

The original standard for determining the duration of music on a CD was derived from the need to get a complete recording of *Beethoven's Ninth Symphony* onto one disc. The symphony lasts for roughly 74 minutes which can be stored in 600 Megabyte of memory - which is the memory capacity of an audio CD. The CD represented a step change from the vinyl *Long Playing* (LP) disc which was bulky to store and easily subject to warping.