**Compound assignment.**

(+=, -=, \*=, /=, %=, >>=, <<=, &=, ^=, |=)

Compound assignment operators modify the current value of a variable by performing an operation on it. They are equivalent to assigning the result of an operation to the first operand:

|  |  |
| --- | --- |
| **expression** | **equivalent to...** |
| y += x; | y = y + x; |
| x -= 5; | x = x - 5; |
| x /= y; | x = x / y; |
| price \*= units + 1; | price = price \* (units+1); |

and the same for all other compound assignment operators. For example:

|  |  |  |  |
| --- | --- | --- | --- |
| 1 2 3 4 5 6 7 8 9 10 11 | // compound assignment operators  #include <iostream>  using namespace std;  int main ()  {  int a, b=3;  a = b;  a+=2; // equivalent to a=a+2  cout << a;  } | 5 | [Edit & Run](https://cplusplus.com/doc/tutorial/operators/) |