



C++ Primitive Data Types

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1. Integer Types (1 points)

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The type `uint32_t` is bits and bytes.
It is unsigned and therefore the smallest value is .

The type `uint8_t` is bits and bytes.
It is unsigned and therefore the smallest value is and the largest .

The type `int8_t` is signed and therefore the smallest value is and the largest

2. Identify the constants (1 points)

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For each constant, enter the corresponding type in C++

3	<input type="text" value="int"/>
3U	<input type="text" value="uint"/>
3L	<input type="text" value="long"/>
3.14	<input type="text" value="double"/>
2.8f	<input type="text" value="float"/>
3.14L	<input type="text" value="long long"/>
'x'	<input type="text" value="char"/>
0x3a51	<input type="text" value="uint64_t"/>
0167	<input type="text" value="uint64_t"/>
1234ULL	<input type="text" value="unsigned long long"/>

3. Identify the constants (1 points)

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For each C++ constant, Identify the base

321	<input type="text" value="decimal"/>
-776	<input type="text" value="decimal"/>
0xF2C	<input type="text" value="hexadecimal"/>
0677	<input type="text" value="octal"/>
0b1011	<input type="text" value="binary"/>

4. Evaluate the answer (1 points)

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```
//Maxint for 16 bits unsigned is 65535
int a = 3 + 4; // a=
int b = 3 * 2; // b=
int c = 7 / 2; // c=
int d = 7 % 2; // d=
int e = 3 - 4; // e=
```

```
uint16_t f = 2-3; // f=  
uint16_t g = 65534 + 2; // g=  
int16_t h = 32765 + 2; // h=
```

5. Evaluate the answer (1 points)

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```
uint32_t a = 2 + 3 * 4; // a=  
uint32_t b = 5 / 3; // b=  
uint32_t c = 2 / 3; // c=  
uint32_t d = 5 / 3 * 3; // d=  
uint32_t e = 4 / 5 * 5; // e=  
uint32_t f = 4 * 5 / 5; // f=
```

6. bool (1 points)

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```
bool a = false;  
cout << a << '\n'; // output is   
a = true;  
cout << a << '\n'; // output is   
a = !a;  
cout << a << '\n'; // output is   
cout << (3 > 3) << '\n'; // output is   
cout << (4 < 6) << '\n'; // output is 
```

7. logical operators (1 points)

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For each assignment write true or false.

```
bool a = 3 < 2 && 4 < 6; // a=  
bool b = 3 < 5 && 2 < 4; // b=  
bool c = 3 < 2 || 2 < 4; // c=  
bool d = 3 < 2 || 4 > 6; // d=
```

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