# Your grade: 100%

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Next item →

**1.** In the following piece of code, there is one line starting with `#`. What does this line mean in Python? 1 / 1 point

```
tax_rate = 0.15
income = 40000
deduction = 10000

# Calculate income taxes
tax = (income - deduction) * tax_rate
print(tax)
```

- ○ This text is used as a file name for the code.
- ○ This text is printed on the console.
- ◉ This is a comment aimed at the human reader. Python ignores such comments.
- ○ This is a syntax error.

✓ **Correct**

**2.** Which of the following are syntactically correct strings? 1 / 1 point

Try each of them in CodeSkulptor3.

- ☐ `Hello`
- ☑ `"It's a beautiful day."`

✓ **Correct**
This is a string. A single-quote (apostrophe) can appear inside double-quotes.

- ☐ `"Hello`
- ☑ `"Hello"`

✓ **Correct**
This is a string. You can use double-quotes.

- ☑ `'Hello'`

✓ **Correct**
This is a string. You can use single-quotes.

**3.** Which of the following statements uses correct Python 3 syntax to print `"Hello world."` in the console? 1 / 1 point

○
```
print "Hello world."
```

○
```
print(Hello world.)
```

○
```
print Hello world.
```

◉
```
print("Hello world.")
```

✓ **Correct**
Correctly uses parentheses and quotes.

**4.** Which of the following arithmetic expressions are syntactically correct? 1 / 1 point

Try each of them in CodeSkulptor3.

- ☑ `7 / +4`

✓ **Correct**
This example has correct syntax.

- ☐ `9 - (2 - (4 * 3)`
- ☑ `(8 + (1 + (2 * 4) - 3))`

✓ **Correct**
This example has correct syntax.

- ☐ `3 * ((2 - 9) + 4)) * (2 + (1 - 3))`
- ☑ `(7 - 2) / (3 ** 2)`

✓ **Correct**
This example has correct syntax.

**5.** Which of the following can be used as a variable name? 1 / 1 point

Try using each in CodeSkulptor3.

- ☑ `number123`

✓ **Correct**
This is a valid variable name.

- ☐ `my-number`
- ☑ `MYnumber`

✓ **Correct**
This is a valid variable name. However, convention says that Python variables shouldn't start with a capital letter.

- ☐ `16ounces`

**6.** You would like to make it so that the variable `ounces` has the value 16, thus representing one pound. What simple Python statement will accomplish this? 1 / 1 point

- ◉ `ounces = 16`
- ○ `ounces := 16`
- ○ `16 = ounces`
- ○ `ounces == 16`

✓ **Correct**
Valid syntax for an assignment statement.

**7.** A gram is equal to 0.035274 ounces. Assume that the variable `mass_in_ounces` has a value representing a given mass in ounces. Which Python statement below uses the variable `mass_in_ounces` to compute an equivalent mass `mass_in_grams` expressed in grams? 1 / 1 point

Think about it mathematically, but also test these expressions in CodeSkulptor3. If you are still confused, you might check out this student tutorial video by Kelly on unit conversions.

○
```
mass_in_grams = mass_in_ounces * 0.035274
```

○
```
mass_in_grams = 0.035274 / mass_in_ounces
```

◉
```
mass_in_grams = mass_in_ounces / 0.035274
```

○
```
mass_in_ounces = 0.035274 * mass_in_grams
```

✓ **Correct**
Correct.