

## Feedback — Quiz 0

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Authentication is not required for this quiz.

You submitted this quiz on Mon 11 Jan 2016 2:30 PM PST. You got a score of 100.00 out of 100.00.

### Question 1

Which of the following are syntactically correct strings?

Try each of them in [CodeSkulptor](#).

Your Answer	Score	Explanation
<input type="checkbox"/> [Hello]	✓ 1.25	This is not a string. A string must use quotation marks.
<input checked="" type="checkbox"/> 'This course is great!'	✓ 2.50	This is a string. You can use single-quotes.
<input checked="" type="checkbox"/> "This course is great!"	✓ 2.50	This is a string. You can use double-quotes.
<input checked="" type="checkbox"/> 'She shouted "Hello!" very loudly.'	✓ 2.50	This is a string. A double-quote can appear inside single-quotes.
<input type="checkbox"/> Hello	✓ 1.25	This is not a string. A string must have quotation marks.
Total	10.00 / 10.00	

### Question 2

To display a value in the console, what Python keyword do you use?

You entered:

Your Answer		Score	Explanation
print	✓	10.00	Correct.
Total		10.00 / 10.00	

## Question 3

In the following code, the one line starting with `#` is highlighted in red. What does this line mean to Python?

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

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

print tax
```

Your Answer		Score	Explanation
<input type="radio"/> The text is stored in a special variable called <code>#</code> .			
<input checked="" type="radio"/> This is a comment aimed at the human reader. Python ignores such comments.	✓	10.00	
<input type="radio"/> This text is printed on the console.			
<input type="radio"/> This is a syntax error.			
<input type="radio"/> This text is used as a file name for the code.			
Total		10.00 / 10.00	

## Question 4

Which of the following arithmetic expressions are syntactically correct?

Try each of them in [CodeSkulptor](#).

Your Answer	Score	Explanation
<input checked="" type="checkbox"/> <code>8 / -2</code>	<input checked="" type="checkbox"/> 2.00	This example has correct syntax. You can put a negative sign in front of a number like this.
<input type="checkbox"/> <code>5 * 3 (7 - 2)</code>	<input checked="" type="checkbox"/> 2.00	This example has incorrect syntax. This is missing an operator between 3 and (7-2).
<input type="checkbox"/> <code>3 * ((2 - 9) + 4) * (2 + (1 - 3))</code>	<input checked="" type="checkbox"/> 2.00	This example has incorrect syntax. This has an extra closing parenthesis.
<input checked="" type="checkbox"/> <code>5 - 1 - 3 - 7 - 0</code>	<input checked="" type="checkbox"/> 2.00	This example has correct syntax.
<input checked="" type="checkbox"/> <code>(7 - 2) / (3 ** 2)</code>	<input checked="" type="checkbox"/> 2.00	This example has correct syntax.
Total	10.00 / 10.00	

## Question 5

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?

Your Answer	Score	Explanation
<input type="checkbox"/> <code>ounces := 16</code>	<input checked="" type="checkbox"/> 1.00	Invalid syntax
<input checked="" type="checkbox"/> <code>ounces = 16</code>	<input checked="" type="checkbox"/> 8.00	
<input type="checkbox"/> <code>16 = ounces</code>	<input checked="" type="checkbox"/> 1.00	Invalid syntax.
Total	10.00 / 10.00	

## Question 6

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?

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

conversions in the ["Concepts and Examples"](#) page.

Your Answer	Score	Explanation
<input type="radio"/> <code>mass_in_ounces = 0.035274 * mass_in_grams</code>		
<input type="radio"/> <code>mass_in_grams = 0.035274 / mass_in_ounces</code>		
<input type="radio"/> <code>mass_in_grams = mass_in_ounces * 0.035274</code>		
<input checked="" type="radio"/> <code>mass_in_grams = mass_in_ounces / 0.035274</code>	✓ 10.00	Correct.
Total	10.00 / 10.00	

#### Question Explanation

Remember that one ounce weighs much more than one gram as you consider possible answers.

## Question 7

Which of the following can be used as a variable name?

Try using each in [CodeSkulptor](#).

Your Answer	Score	Explanation
<input checked="" type="checkbox"/> <code>ounces</code>	✓ 2.00	This is a valid variable name.
<input type="checkbox"/> <code>16ounces</code>	✓ 1.00	No, this is not a valid variable name. A variable name cannot begin with digits.
<input checked="" type="checkbox"/> <code>__number__</code>	✓ 2.00	This is a valid variable name. However, convention says that Python variable names starting and ending with underscores only in special circumstances.
<input checked="" type="checkbox"/> <code>number123</code>	✓ 2.00	This is a valid variable name.
<input type="checkbox"/> <code>my-number</code>	✓ 1.00	No, this is not a valid variable name. You cannot use a dash in a variable name. The dash is interpreted as a minus sign.
<input checked="" type="checkbox"/> <code>MYnumber</code>	✓ 2.00	This is a valid variable name. However, convention says that Python variables shouldn't start with a capital letter.
Total	10.00	

/  
10.00

### Question 8

Assume you have values in the variables `x` and `y`. Which statement(s) would result in `x` having the sum of the current values of `x` and `y`?

Test your answer in [CodeSkulptor](#).

Your Answer		Score	Explanation
<input checked="" type="checkbox"/> <code>x = y + x</code>	✓	4.00	
<input type="checkbox"/> <code>x += x + y</code>	✓	1.00	
<input type="checkbox"/> <code>y += x</code>	✓	1.00	
<input checked="" type="checkbox"/> <code>x += y</code>	✓	4.00	
Total		10.00 / 10.00	

### Question 9

Python file names traditionally end in what characters after a period? Don't include the period.

You entered:

py

Your Answer		Score	Explanation
py	✓	10.00	
Total		10.00 / 10.00	

# Question 10

We encourage you to save your CodeSkulptor Python files where?

Your Answer	Score	Explanation
<input type="radio"/> On your computer only		
<input type="radio"/> Nowhere — CodeSkulptor automatically saves your files for you		
<input type="radio"/> In "the cloud" only		
<input checked="" type="radio"/> In "the cloud" and on your computer	✓ 10.00	Correct.
Total	10.00 / 10.00	