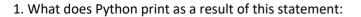
Review Questions

Note: Many of the review questions are meant to be challenging. At times, the questions probe material that is somewhat peripheral to the main topic. For example, questions may test your ability to spot subtle bugs. Because of their difficulty, you should not be discouraged by incorrect answers to these questions but rather use challenging questions (and the understanding of the correct answer) as opportunities to strengthen your overall programming skills. Try doing it manually first, if in doubt, just simply run the commands in your console/interactive shell. C",)



$$print(7 + 23)$$

- (a) 7 + 23
- (b) 7 + 23 = 30
- (c) 30
- (d) This produces an error.
- 2. Which of the following are valid variable names?
 - (a) _1_2_3_
 - (b) ms.NET
 - (c) WoW
 - (d) green-day
 - (e) big!fish
 - (f) 500_days_of_summer
- 3. Which of the following are valid identifiers?
 - (a) a1b2c
 - (b) 1a2b3
 - (c) a_b_c
 - (d) _a_b_
 - (e) a-b-c
 - (f) -a-b-
 - (g) aBcDe
 - (h) a.b.c

4. Suppose the variable x has the value 5 and y has the value 10. After executing these statements:
x = y
y = x
what will the values of x and y be, respectively?
(a) 5 and 10
(b) 10 and 5
(c) 10 and 10
(d) 5 and 5
5. True or False: " $x ** 2$ " yields the identical result that is produced by " $x * x$ " for all integer and float values of x .
6. True or False: "x ** 2.0" yields the identical result that is produced by "x * x" for all integer and float values of
7. What does Python print as a result of this statement?
print(5 + 6 % 7)
(a) This produces an error.
(b) 5 + 6 % 7
(c) 11
(d) 4
8. What is the output from the print() statement in the following code?
x = 3 % 4 + 1
y = 4 % 3 + 1
x, y = x, y
print(x, y)
(a) 2 4
(b) 4 2
(c) 0 3
(d) 3 0
9. What is the output produced by the following code?
x = 3
y = 4
print("x", "y", x + y)
(a) 3 4 7
(b) x y 7
(c) x y x + y
(d) 3 4 x + y
(e) x y 34

For each of the following, determine the value to which the expression evaluates. (Your answer should distinguish between floats and ints by either the inclusion or exclusion of a decimal point.)

10. 5.5 - 11 / 2 11. 5.5 - 11 // 2

12. 10 % 7

13.7%10

14.3+2*2

15.16/4/2

16.16/4*2

17. Given that the following Python statements are executed:

Determine the values to which the variables b through g are set.

18. What output is produced when the following code is executed?

- (a) hello, world
- (b) yo dude
- (c) "yo" "dude"
- (d) yodude
- (e) This produces an error.

19. The following code is executed. What is the output from the print() statement?				
		x = 15		
		y = x		
		x = 20		
		print(y)		
	(a) 15			
	(b) 20			
	(c) y			
	(d) x			
	(e) This	produces an error.		
20. The	followin	g code is executed. What is the output from the print() statement?		
		result = "10" / 2		
		print(result)		
	(a) 5			
	(b) 5.0			
	(c) '"10'	' / 2'		
	(d) This	produces an error.		
21. The	followin	g code is executed. What is the output from the print() statement?		
		x = 10		
		y = 20		
		a, b = x + 1, y + 2		
		print(a, b)		
	(a) 10 2	0		
(b) 11		2		
	(c) 'a, b'			
	(d) 'x +	1, y + 2'		
	(e) This	produces an error.		
22. True	e or False	e: In general, "x / y * z" is equal to "x / (y * z)".		
23. True	e or False	e: In general, "x / y ** z" is equal to "x / (y ** z)".		
24. True	e or False	e: In general, " $w + x * y + z$ " is equal to " $(w + x) * (y + z)$ ".		
25. True	25. True or False: In general, " $w \% x + y \% z$ " is equal to " $(w \% x) + (y \% z)$ ".			
26. True	e or False	e: If both m and n are ints, then "m / n" and "m // n" both evaluate to ints.		

27. True	or False: The following three statements are all equivalent:
	x = (3 +
	4)
	x = 3 + \
	4
	x = """3 +
	4"""
28. Give	n that the following Python statements are executed:
	x = 3 % 4
	y = 4 % 3
What ar	e the values of x and y?
29. To w	hat value is the variable z set by the following code?
	z = 13 + 13 // 10
	(a) 14.3
	(b) 14.0
	(c) 2
	(d) 14
	(e) 16
	ime the float variable ss represents a time in terms of seconds. What is an appropriate statement to calculate ober of complete minutes in this time (and store the result as an int in the variable mm)?
	(a) mm = ss // 60
	(b) mm = ss / 60
	(c) mm = ss % 60
	(d) mm = ss * 60

{End of Review Questions}

Have fun!!