

1. In the Python statement `x = a + 5 - b`:

a and b are\_ \_\_\_\_\_ عملوند

`a + 5 - b` is\_ \_\_\_\_\_ یک عبارت

a) operators, a c) operands, an d) operands, an

b) terms, a group

statement

equation

expression

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2. What is the value of the expression `100 / 25`? 4

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3. Should you use the `==` operator to determine whether objects of type float are equal?

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4. Consider the following code snippet:

```
x = 10.0
```

```
y = (x < 100.0) and isinstance(x, float)
```

After these are executed, what is the value of `y`?

a) True

b) None

c) False

d) 0

e) 1

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5. Which of the following are truthy? (Select all possible options)

a) 0.000001

b) True

c) 'None'

d)

False

e) [ ]

f) 0

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6. Suppose the following statements are executed:

```
a = 100
```

```
b = 200
```

What is the value of the expression `a and b`?

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7. The function `sqrt()` from the `math` module computes the square root of a number. Will the highlighted line of code raise an exception?

```
x = -100
from math import sqrt
x > 0 and sqrt(x)
```

8. For two objects `x` and `y`:

```
x is y is True
```

if and only if

```
id(x) == id(y)
```

a) True

b) False

- 9.

Which of the following operators has the lowest precedence?

a) `and`

b) `%`

c) `not`

d) `**`

e) `+`

10. What is the value of the expression `1 + 2 ** 3 * 4`? 25