Relational operators

| If d1 and d2 are doubles with valid values, what is wrong with the following expression? | | |
|--------------------------------------------------------------------------------------------------------|------------------------------------------|--|
| "answer = " + (d1 < d2) return boolean values true/false | | |
| Select one: | | |
| O a. | Can't add a String and a boolean | |
| O b. | Can't concatenate a String and a boolean | |
| О с. | Can't compare a String and a boolean | |
| O d. | Can't compare a String and a double | |

If the value of x is 20, what does this expression evaluate in Java?

e. If you think nothing is wrong with the expression, select this option

0 <= x < 30

Boolean int

Select one:

- a. false
- b. true
- c. It will not compile

What does the following expression evaluate to?

boolean flag="abcd".compareTo("abCd ") > 0;

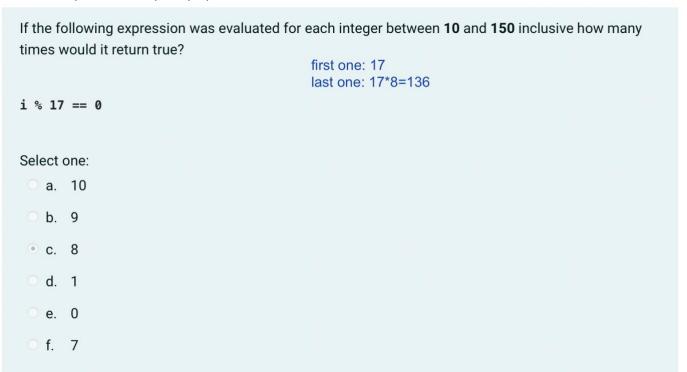
Select one:

- a. The expression has a syntax error .compareTo() & .compareTolgnoreCase(): return int
- b. trueUnicode order:
 - space<1<2<3..<9<...<A<B<C<...Z<a<b<c<...<z

Operators

| Which of the following is NOT a Java operator? | | | |
|----------------------------------------------------------------------------------------------------------|--|--|--|
| Remember, for this question and other questions in this quiz: "When in doubt, try it out (in IntelliJ)". | | | |
| | | | |
| Select one or more: | | | |
| a decrement operator | | | |
| ☑ b. <- | | | |
| ✓ C. === | | | |
| d. != relational operator is not equal to | | | |
| □ e. logical OR | | | |
| ☐ f. <= arithmetic operator (numeric comparison) | | | |
| g. ! boolean operator NOT | | | |
| h= subtraction assignment operator | | | |
| | | | |

Arithmetic operator & equality operator



Arithmetic operator

What does the following expression evaluate to?

(double) (24 / ((double) 5))

24/5->4 24/(double)5->4.8

Select one:

- a. 4
- b. 5
- c. 4.0
- d. 3.5
- e. 5.0
- f. 4.8

Variable scope

If a statement block is nested inside another statement block which of the following is true?

Select one:

- a. The variables in the inner block are in scope in the outer block but the reverse is not true
- b. The variables of the outer block are in scope in the inner block but the reverse is not true
- c. The variables in the outer block are in scope in the inner block and the reverse is also true
- od. If you think nesting blocks like this produces a syntax error in Java, select this option

Pre/post increment

What is the output of the following piece of code?

```
int x = 4, y = 3;
boolean b = ++x < y++ || ++x < y++;
System.out.println(x+","+y+","+b);</pre>
```

Select one:

- a. 5,6,false
- b. 6,5,false
- c. 5,4,false
- d. 4,3,false
- e. 4,3,true
- f. 5,4,true

What left operand **value** and right operand **value** respectively does the multiplication operator operate on in the following expression? You can assume i has the initial value of 5.

j-- * j--

Hint: try it out in IntelliJ and work backwards to deduce what must have happened.

Select one:

- a. 5, 5
- b. 4, 3
- oc. 3,3
- od. 5,4
- e. 4, 4

Math class

| Which | of the following is NOT true about the Math class? | |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Select one or more: | | |
| a. | A Math object can be instantiated | |
| □ b. | It is not a recipe for a thing/concept instance | |
| □ c. | Its methods perform mathematical functions | |
| □ d. | It contains public mathematical constants Math.E Math.PI | |
| □ e. | It never needs importing in a package in Java class library called java.lang | |
| √ f. | double a=Math.sqrt(a); double power=Math.pow(b,2); It does not provide operations such as roots and powers as these basic mathematical operations (along with +, - *, /) are provided by the Java language | |