

## University of Winnipeg - PACE

Program: Web development diploma

Course: Introduction to Java programming

Instructor: Andre Specht de Andrade

Quiz 1 - 10 questions (8 MC + 2 SA)

Multiple choice questions (8 per quiz)

New question: MC 1

Title: Java classes

Question text: Which Scanner class method would you use to read a string as input?

Points: 1.5

Option: nextString( )    0

Option: nextLine( )    100

Option: readString( )    0

Option: getLine( )    0

Hint:

Feedback:

New question: MC 2

Title: Instance variables

Question text: Which of the following statements is true?

Points: 1.5

Option: An instance variable of type double defaults to null    0

Option: An instance variable of type int defaults to null    0

Option: An instance variable of type double defaults to 0    0

Option: An instance variable of type String defaults to null    100

Hint:

Feedback:

New question: MC 3

Title: Encapsulation

Question text: The concept of encapsulation describes the implementation of

Points: 1.5

Option: public instance members that have a getter and a setter    0

Option: public instance members that have private methods    0

Option: private instance members that have public constructors    0

Option: private instance members that have public methods    100

Hint:

Feedback:

New question: MC 4

Title: Object lifecycle

Question text: Which statement about garbage collection is correct?

Points: 1.5

- Option: Garbage collection is guaranteed to run 0
- Option: Garbage collection is guaranteed not to run 0
- Option: Garbage collection might or might not run 100
- Option: Garbage collection runs when your code is compiled 0

Hint:

Feedback:

New question: MC 5

Title: Operator precedence

Question text: What is the output of the following code snippet?

```
public static void main(String[] args) {  
    int x = 5 * 4 % 3;  
    System.out.println(x);  
}
```

Points: 1.5

- Option: 5 0
- Option: 2 100
- Option: 0 0
- Option: The code does not compile 0

Hint:

Feedback:

New question: MC 6

Title: Java operators

Question text: This determines whether two different String objects contain the same string

Points: 1.5

- Option: The = operator 0
- Option: The == operator 0
- Option: The equals() method 100
- Option: The isEqual() method 0

Hint:

Feedback

New question: MC 7

Title: Method signature

Question text: What does "int a" mean in the following method signature?

```
public void setNumber(int a)
```

Points: 1.5

- Option: An argument 0
- Option: A parameter 100
- Option: A return type 0

Option: An instance variable 0

Hint:

Feedback

New question: MC 8

Title: Operands and operators

Question text: If one of an operator's operands is a int, and the other operand is an double, Java will automatically convert the value of the int to a double. This process is called

Points: 1.5

Option: numeric promotion 100

Option: variable promotion 0

Option: operand promotion 0

Option: type promotion 0

Hint:

Feedback:

New question: MC 9

Title: Access modifiers

Question text: What access modifiers is used to mark class members package-private?

Points: 1.5

Option: default 0

Option: protected 0

Option: private 0

Option: None of the above 100

Hint:

Feedback:

New question: MC 10

Title: Java class structure

Question text: What is the correct order of statements for a Java class file?

Points: 1.5

Option: import, package, class 0

Option: comment, import, class 0

Option: package, import, class 100

Option: package, comment, class 0

Hint:

Feedback:

New question: MC 11

Title: Methods

Question text: This statement causes a method to end and sends a value back to the statement that called the method

Points: 1.5

Option: end 0

Option: break 0  
Option: return 100  
Option: send 0  
Hint:  
Feedback:

New question: MC 12

Title: Variable scope

Question text: Which variables have a scope limited to a method?

Points: 1.5

Option: Class variables 0  
Option: Instance variables 0  
Option: Local variables 100  
Option: All variables 0

Hint:

Feedback:

Short-answer questions (2 per quiz)

New question: SA 1

Title: Data types

Question text: Fill in the blanks

Unlike \_\_\_\_\_ [one word] types that hold their values in the memory where the variable is allocated, \_\_\_\_\_ [one word] do not hold the value of the object they refer to

Points: 1.5

Answer: primitive, references / reference

Hint:

Feedback:

New question: SA 2

Title: Java Virtual Machine

Question text: Fill in the blanks

\_\_\_\_\_ [one word] is a machine-independent code generated by the Java \_\_\_\_\_ [one word] and executed by the Java interpreter

Points: 1.5

Answer: bytecode, compiler

Hint:

Feedback:

New question: SA 3

Title: Object lifecycle

Question text: Fill in the blanks

An object becomes eligible for \_\_\_\_\_ [two words] when there are no more references to it or its references have all gone out of scope

Points: 1.5

Answer: garbage, collection

Hint:

Feedback:

New question: SA 4

Title: Classes and objects

Question text: Fill in the blanks

A \_\_\_\_\_ [one word] is a method matching the \_\_\_\_\_ [one word] name and omitting the return type

Answer: constructor, class

Points: 1.5

Hint:

Feedback: