Interface Assessment

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100%

1.	(Select all that apply) Interfaces can have	1/1 point
	Methods that refer to non-static-final attributes	
	✓ Abstract methods	
	✓ Correct Correct	
	Attributes that are static and final	
	✓ Correct Correct, and that is implicit for any attributes on an interface	
	✓ JavaBeans properties	
	✓ Correct Sure. Abstract, yes, but they can be declared and thus polymorphic.	

Methods with code	
Correct As of Java 8, yes, we can have both default and static methods on interfaces. But they can only reference other methods or constants. There is no data to reference.	
Attributes that are not final	
2. (Select all that apply) Interfaces	1/1 point
Can extend multiple other interfaces	
✓ Correct Correct	
Can implement one or more interfaces	
Provide polymorphism to classes that have nothing in common other than that they all implement that interface.	
✓ Correct Yes, this is literally why they exist.	
Can extend one, but only one, class	
3. Where the java.lang.Math class introduced in Java 8, could it have been an interface?	1/1 point
Yes.No.	
✓ Correct Correct. It contains nothing but static members.	
4. Where the java.lang.System class introduced in Java 8, could it have been an interface?	1/1 point
Yes.No.	
 ✓ Correct Correct. Even though they are static, members of System such as out and err can be modified. 	

8. Interfaces are best used to	1/1 point
Provide a common implementation to child classes.	
Provide polymorphism throughout Java, regardless of class inheritance.	
✓ Correct Correct	
9. In the following code	1/1 point
Interface EmployeeService {	
static String END_POINT = "http://localhost:8080/employees";	
public Employee[] findAll();	
Employee findByID(int empID);	
EmployeeService(String endPoint);	
}	
The END_POINT variable can be changed at runtime to point to the real service, since it is not final.	
The constructor declaration is invalid.	
The findByID method has default (package) scope.	
✓ Correct Correct.	
10. True or false: Interfaces are the key to polymorphism in Java.	1/1 point
● True	
○ False	
✓ Correct Yes, as we've repeatedly covered in class.	