Answer Key

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3.	С	11.	C	19.	E
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8.		16.			

Answer Explanations

- 1. **(D)** There are just two constructors. Constructors are recognizable by having the same name as the class, and no return type.
- 2. **(B)** Each of the private instance variables should be assigned the value of the matching parameter. Choice B is the only choice that does this. Choice D confuses the order of the assignment statements. Choice A gives the code for the *no-argument* constructor, ignoring the parameters. Choice C would be correct if it were resetTime(h, m, s). As written, it doesn't assign the parameter values h, m, and s to hrs, mins, and secs. Choice E is wrong because the keyword new should be used to create a new object, not to implement the constructor!
- 3. (C) Replacement III will automatically print time t in the required form since a toString method was defined for the Time class. Replacement I is wrong because it doesn't refer to the parameter, t, of the method. Replacement II is wrong because a client program may not access private data of the class.
- 4. **(C)** The parameter names can be the same—the *signatures* must be different. For example,

```
public void print(int x) //prints x
public void print(double x) //prints x
```

The signatures (method name plus parameter types) here are print(int) and print(double), respectively. The parameter name x is irrelevant. Choice A is true: All local variables and parameters go out of scope (are erased) when the method is exited. Choice B is true: Static methods apply to the whole class. Only instance methods have an implicit this parameter. Choice D is true even for object parameters: Their references are passed by value. Note that choice E is true because it's possible to have two different constructors with different signatures but the same number of parameters (e.g., one for an int argument and one for a double).

5. **(B)** Constructing an object requires the keyword new and a constructor of the Date class. Eliminate choices D and E since they omit new. The class name Date should appear on the right-hand side of the assignment statement, immediately following the keyword new. This eliminates choices A and C.