

Using Objects — Handwritten String FRQ

Name: _____ Period: _____ Date: _____

AP objective: MOD-1.F Points: 20

Why handwritten, in class: this replaces a typed task AI can complete. Work every item by hand and **show all your steps** — no AI, phones, or notes. A correct answer with no work earns half credit; the work is what proves it's yours.

Complete each item by hand — show all work

1. Evaluate each call by hand (mind 0-indexing and the exclusive end index) — 8 pts

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```
String s = "COMPUTER";
```

- (a) `s.length()`
- (b) `s.substring(0, 3)`
- (c) `s.substring(3)`
- (d) `s.indexOf("T")`
- (e) `s.charAt(2)`

2. Write a method `firstInitialLast(String name)` that turns "Jane Smith" into "J. Smith" — 8 pts

Use `indexOf(" ")` and `substring` — show your index math.

3. Explain why `==` fails to compare two Strings' contents — 4 pts

Oral defense (teacher — 60 sec)

Student answers one cold question aloud before grading. A student who did their own work can answer instantly; a copied one can't. Strong OK Weak

Scoring (20 pts)

Criterion	Pts	Earned
Calls evaluated correctly	8	
Method uses substring/indexOf	8	
== vs equals explained	4	
<i>Gate:</i> passed oral defense (can explain the work aloud)	req'd	<input type="radio"/> Y <input type="radio"/> N
Total	20	

Integrity gate: if the student can't explain their work aloud, cap the score at 50% and require a resubmit.