EARTH ELECTRODE READINGS: WHAT GOES DOWN AS RA

THREE ELECTRODE READINGS. WHAT'S RA?

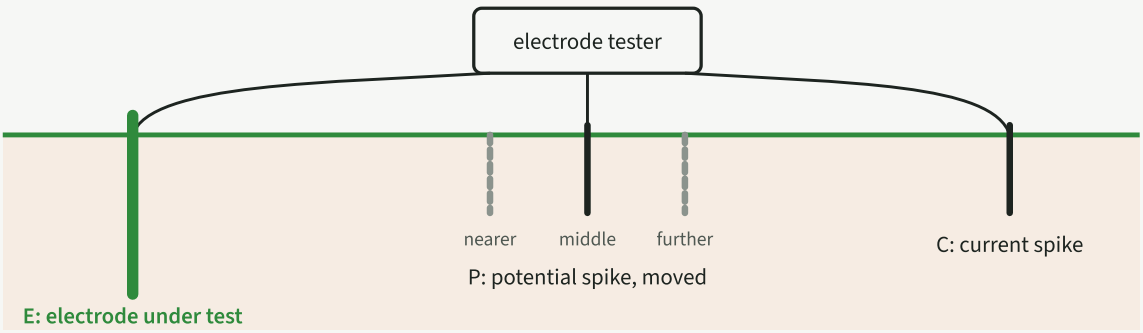
Q17Book + simple maths
An earth electrode test gives three readings: 84 Ω, 88 Ω and 86 Ω. What's recorded as R_A?

1. **a**88.0 Ω
2. **b**86.0 Ω
3. **c**84.0 Ω
4. **d**All three

GN3 gives three earth electrode test methods: **E1, E2 and E3**. Three readings means **method E1**, using an earth electrode tester and test spikes in the ground. You take readings with the spike in **three positions** and record the **average**.

WORKING

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(84 + 88 + 86) ÷ 3 = 258 ÷ 3 = 86.0 Ω
Record RA = 86.0 Ω  → answer b
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Readings 84 Ω · 88 Ω · 86 Ω → average = 86.0 Ω = RA
(not the highest, the lowest or all three)

Test method E1 in outline. Not to scale. Use GN3 for the actual spike distances and how close the readings must be.

GN3 · 2.6.13 · earth electrode test method E1 · **p.78** (Figure 2.26 · **p.79**)

GN3 · take the average of the three readings · **pp.78–79**

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