Revision practice

SAT

Original mixed retrieval and transfer, not a digital SAT mock or scaled-score predictor. Use Bluebook for official adaptive rehearsal.

Question 1

A service charges $7 plus 3$ per kilometre. Two trips cost $22 and 34$. Find their distances.

Worked answer

5 km and 9 km: subtract 7, then divide by 3.

Question 2

Solve $(x^2-4)/(x-2)=0$ and state the domain restriction.

Worked answer

$x \neq 2$; simplification gives $x+2=0$, so $x=-2$ is valid.

Question 3

A survey of 40 volunteers finds 28 prefer an earlier start. Give a supported percentage and a limit on the conclusion.

Worked answer

70% of these volunteers prefer an earlier start; a volunteer sample does not establish the whole population's preference.

Question 4

Original passage: "The museum displayed replicas of its fragile instruments so visitors could explore their design. The originals remained available to researchers by appointment." State the central idea and reject the claim that replicas replaced every use of originals.

Worked answer

Replicas broadened design access while originals retained a supervised research role. The appointment sentence directly rules out replacing every use.

Question 5

Original hypothetical data: Group M has 8 successes among 10 attempts before a revision and 9 among 10 after. Group N has 30 among 50 before and 40 among 50 after. Which group has the larger percentage-point increase? Show the comparison.

Worked answer

M: 80% to 90%, +10 points. N: 60% to 80%, +20 points. N has the larger point increase; neither difference alone proves a causal revision effect.

Question 6

Original passage: “The station’s new signs reduced requests for directions to platforms, but enquiries about ticket rules remained common.” Give a supported inference about the signs and identify an overstatement.

Worked answer

The signs helped with platform navigation more than with ticket-rule enquiries. Overstatement: the signs eliminated every request for assistance.

Question 7

Original sentence: “The historian challenged the account, noting that several dates conflicted with surviving letters.” Explain challenged in context and the clue supporting that sense.

Worked answer

Challenged means questioned or disputed the account’s accuracy, supported by dates conflicting with surviving evidence; it does not mean invited the account to a contest.

Question 8

Original passage: “The first design used a single large panel. Its weight made transport difficult. The second design divided the panel into smaller sections.” Explain the middle sentence’s function.

Worked answer

It identifies the limitation of the first design and motivates the later response. It is not an unrelated transport history or a conclusion that all panels should be small.

Question 9

Original Text A: “The busiest paths should receive the new signs first because more visitors use them.” Text B: “Less-used paths may have more confusing junctions, so traffic alone should not determine sign placement.” Describe B’s response to A.

Worked answer

B qualifies A’s traffic-based recommendation by adding junction difficulty as a relevant criterion. B need not dispute that busy paths have more users.

Question 10

Original notes: Mira measured water temperature hourly; Theo recorded it once daily; both worked at the same pond. Goal: emphasise the difference in measurement frequency. Write a sentence using only relevant facts.

Worked answer

Mira measured the pond’s water temperature every hour, whereas Theo recorded it once a day. The shared pond alone does not satisfy the difference goal.

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■ Question 11

Original passage: “The two routes cover the same distance. _____, one includes several steep climbs.” Choose however or therefore and explain the relationship.

Worked answer

However. Equal distance does not imply equal terrain; the climbs introduce a contrast in route conditions rather than a consequence of equal distance.

■ Question 12

Repair “The drawers were labelled, researchers could locate items quickly” in two different valid ways. Then explain why “The drawers contained: maps and letters” uses an invalid colon.

Worked answer

Use a semicolon or period, or add a conjunction: The drawers were labelled, so researchers could locate items quickly. A colon after contained improperly separates a verb from its direct object.

■ Question 13

Repair “The sequence of images show the repair process.” Then rewrite “After inspecting the frame, the damage became clear” so a named inspector performs the inspecting.

Worked answer

The sequence of images shows the repair process. After inspecting the frame, Noor identified the damage. Singular sequence controls agreement; Noor supplies the modifier’s logical subject.

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