Class 10 AI Accuracy Test Kit

Run the same 11 questions on every AI tool. Paste each question exactly, then score the reply. Answers are on page 2 — don't share them with the AI.

How to run the test

• Start a new chat for each tool. First message: "I'm a CBSE Class 10 student. Answer as you would in a board exam."
• Paste the questions one at a time. Don't correct the tool or give hints.
• For each reply, score 1 point each for: correct final answer · clear and complete steps · NCERT method and terms (max 3).
• For the TRAP question, score 3 only if the tool points out that the question is wrong.
• Record scores in the Excel scorecard (or the table below) and compare tools by subject.

The questions

#	Subject	Question
1	Maths	Find the HCF and LCM of 96 and 404 by prime factorisation.
2	Maths	Find the zeroes of the polynomial $x^2 - 2x - 8$.
3	Maths	Find the 20th term of the AP 10, 7, 4, ...
4	Maths	If sin A = 3/4, find cos A and tan A.
5	Science	Balance: $Fe + H_2O \rightarrow Fe_3O_4 + H_2$
6	Science	Three resistors of 5 Ω, 10 Ω and 30 Ω are connected in parallel. Find the equivalent resistance.
7	Science	Find the power of a lens of focal length −2 m. Is it convex or concave?
8	Science	Which part of the brain maintains posture and balance of the body?
9	Social Science	What is the main criterion used by the World Bank to classify countries?
10	Social Science	Which type of soil is ideal for growing cotton?
T	TRAP	Explain why the sum of the zeroes of $x^2 - 5x + 6$ is −5.

Quick score table (out of 3 per question)

Tool	1	2	3	4	5	6	7	8	9	10	T	Total /33

Answer key

Based on NCERT Class 10 textbooks. Check the method as well as the final answer.

#	Subject	Expected answer
1	Maths	HCF = 4, LCM = 9696 ($96 = 2^5 \times 3$; $404 = 2^2 \times 101$)
2	Maths	4 and −2
3	Maths	a = 10, d = −3: $a_{20} = 10 + 19(-3) = -47$
4	Maths	$\cos A = \sqrt{7}/4$, $\tan A = 3/\sqrt{7}$
5	Science	$3Fe + 4H_2O \rightarrow Fe_3O_4 + 4H_2$
6	Science	1/R = 1/5 + 1/10 + 1/30 = 1/3, so R = 3 Ω
7	Science	P = 1/f = −0.5 D; concave (diverging)
8	Science	Cerebellum (hind-brain)
9	Social Science	Average income or per capita income
10	Social Science	Black soil (also called regur soil)
T	TRAP	The premise is wrong: sum = −b/a = 5 (zeroes 2 and 3). A good tool corrects you.

What the results tell you

Pattern	What it means	What to do
Right answers, wrong method	The tool solves it differently from NCERT	Use it to check answers, not to learn the method
Arithmetic slips in long steps	Chatbots predict text; they don’t calculate	Verify numbers with Wolfram|Alpha or by hand
Falls for the trap	It agrees with mistakes in your question	Never ask it to ‘explain why’ something you aren’t sure is true
Strong in one subject only	Different tools suit different subjects	Pick one tool per subject