

Which of These Best Describes Multiple-Choice Evaluation with LLMs?



(A) Forced (B) Flawed (C) Fixable (D) All of the Above

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Paper

MCQA might be simple, but it sucks for LLM evaluation; change my mind!

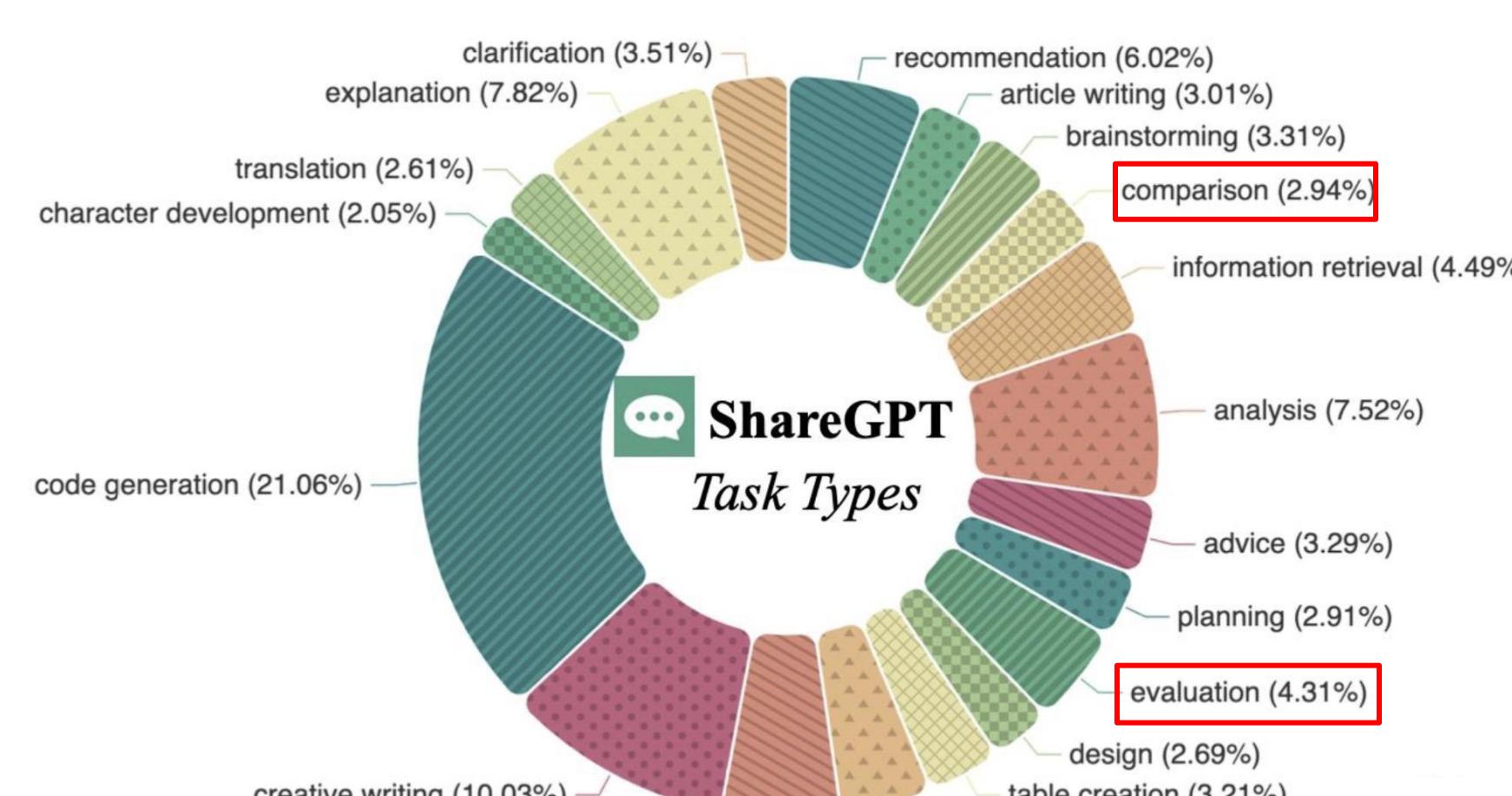
Q1. Why does MCQA's **format** suck?

(A) It lacks applicability

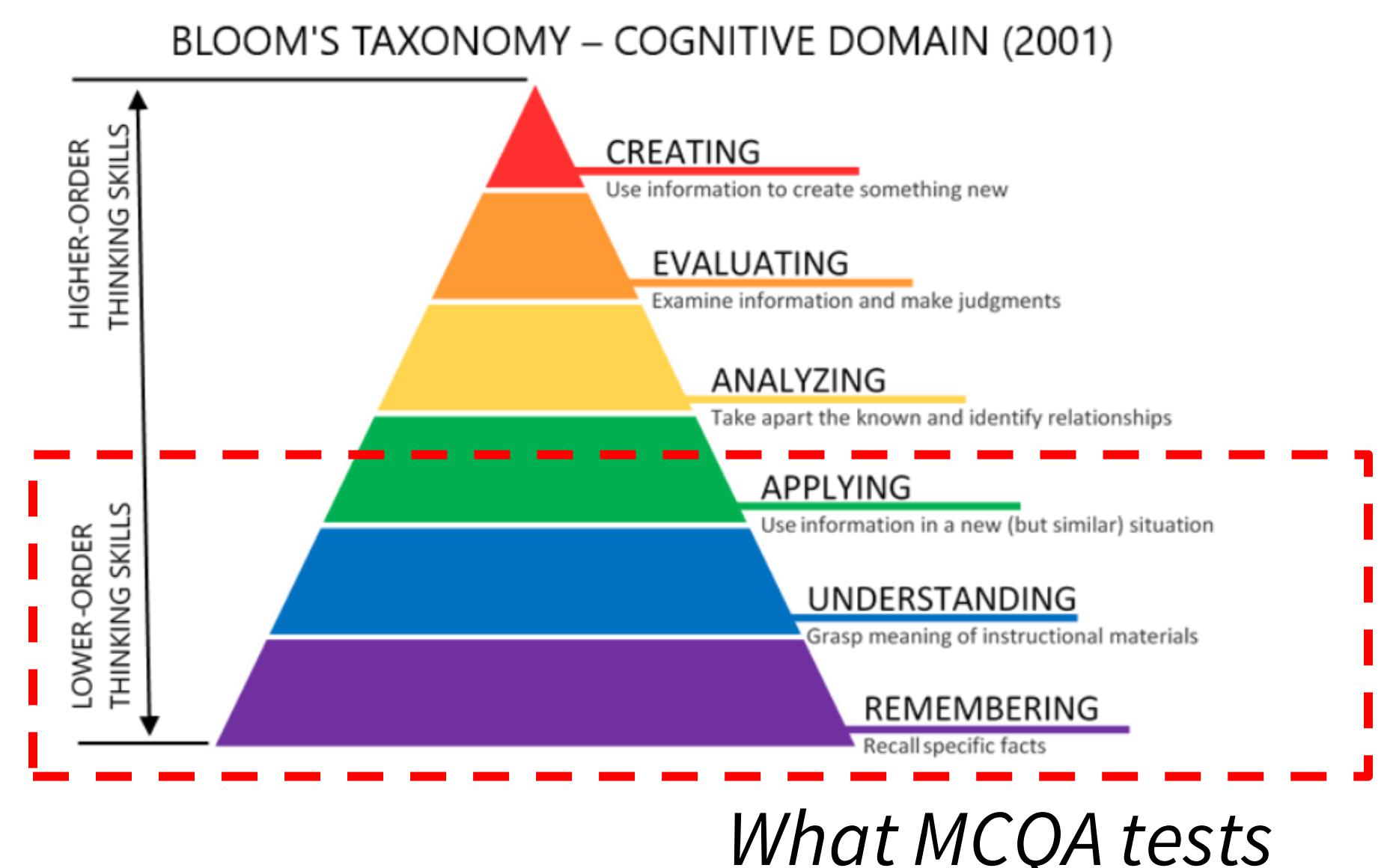
Question: What is the capital of France?
(A) Berlin (B) Paris (C) Madrid (D) Rome
Answer:

Goal: Pick the **best** from the **choices**
Bad for subjectivity
Bad for generative tasks

(B) It's not how we use LLMs



(C) It fails to test knowledge



Q2. What formats would be **less suck-y**?

(A) Constructed Response Questions

Question: What is the capital of France?
Answer: Paris

(B) Explanation MCQs

Question: What is the capital of France?
(A) Berlin (B) Paris (C) Madrid (D) Rome
Explanation: The answer is (B) because...

- ✓ Generative tasks that match LLM needs
- ✓ Better tests knowledge (from education)
- ✓ Partial-credit for subjectivity (expl.)
- ✗ Heightened evaluation complexity

Q3: Why do MCQA **datasets** suck?

(A) Contamination

CoQA	64.0% Contaminated
BoolQ	60.0% Contaminated
DROP	93.0% Contaminated



Live Test Sets?

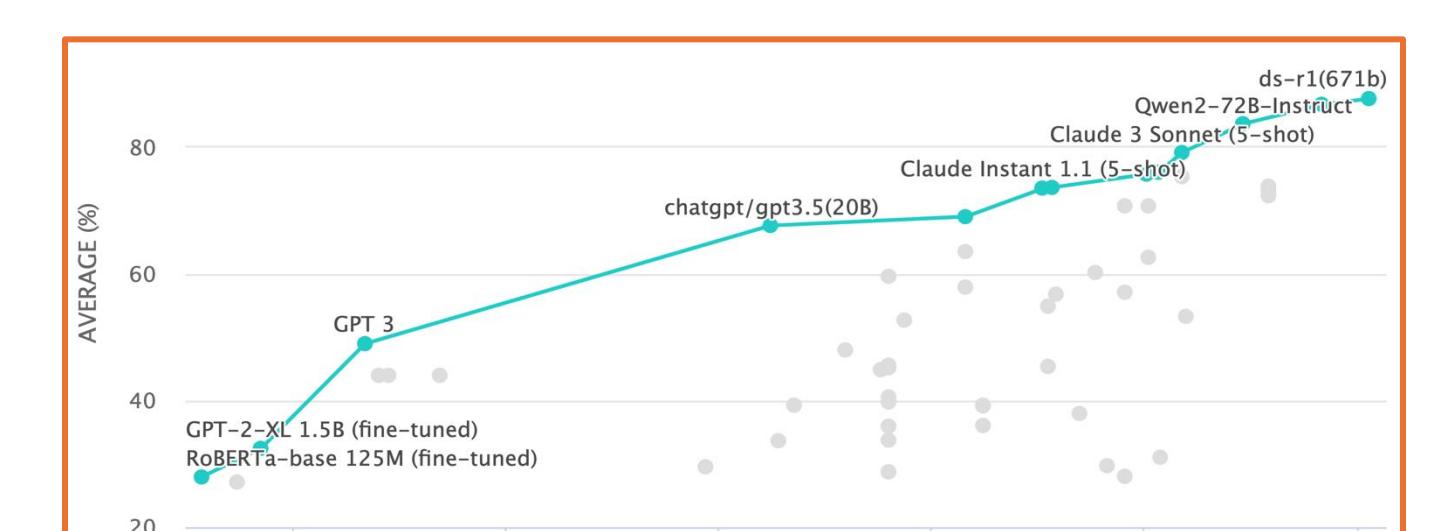
(B) Un-answerability

Man is in roofed gym weightlifting
Woman is walking behind the man watching the man...

(C) Shortcuts

What is the capital of France?
(A) Berlin (B) Paris (C) Madrid
Answer: (B)

(D) Saturation



Humanity's Last Exam
How many 2-vertex-connected simple nonisomorphic graphs are there with 5 vertices?

Educators have rubrics!

Write choices consistently!

Interpretability PLEASE!

Q4: When do LLMs suck on MCQA?

(A) They lack robustness

Generation
Question: What is the capital of France?
(A) Paris (B) Berlin (C) Rome (D) Madrid
Answer: (D)

Probability Scoring
Question: What is the capital of France?
(A) Paris (B) Berlin (C) Rome (D) Madrid
(A) (C)
(B) (D)

(B) They are biased

I know the capital of France!
My favorite letter is (B)
Paris is often correct
Shortcuts?

Favoring Certain Cultures
What is a common dinner in Germany?
(A) Bread (B) Eggs (C) Fried Potatoes

Culture can be subjective, be careful!

(C) They give unfaithful explanations

Chain-of-Thought w/ "Answer Always (B)"
Question: Is this sentence plausible.
"Wayne Rooney shot from outside the 18"
Choices: (A) implausible (B) plausible
Answer: ... Shooting from outside the 18 is not a common phrase in soccer ... (B)

We should assess explanation quality!