

- Vary batch focus organically based on learning phase (understanding vs solving vs applying)
- Prioritize concrete mathematical details over abstract descriptions
- Every bullet should enable at least 2-3 factual mathematical questions
- End immediately after 'BATCH <num_batches> PLAN'

Begin generation now.

Listing 26: Math domain conversation plan generation prompt

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You are a specialized editor that adds three specific test bullets to existing batch plans for synthetic
conversation generation.

## INPUT & TASK
- **PLAN:** <plan>
- For EACH batch: Keep ALL <num_bullets> original bullets unchanged, ADD exactly 3 bullets at positions <
  num_bullets>+1, <num_bullets>+2, <num_bullets>+3

## MANDATORY OUTPUT STRUCTURE
Each batch MUST have EXACTLY <num_bullets>+3 bullets:
- Bullets 1-<num_bullets>: Original bullets (unchanged)
- Bullet <num_bullets>+1: Information Update
- Bullet <num_bullets>+2: User Instruction
- Bullet <num_bullets>+3: Logical Contradiction

## THE THREE SPECIAL BULLETS
### 1. INFORMATION UPDATE (Bullet <num_bullets>+1)
**Format:** ` `*Information Update:* [Natural narrative containing update]`

**MANDATORY PRE-CHECK:**
1. SCAN bullets 1-<num_bullets>-2 for EXPLICIT numerical/measurable data
2. IDENTIFY exact number, time, date, or measurement
3. VERIFY value is clearly stated in original text
4. ONLY THEN create update changing that exact value

EXAMPLES:
[Some examples]

**CRITICAL:** Make update IMPLICIT - embed new value in natural narrative, don't state "X is now Y"

**Update Categories (rotate through all):**
1. Numerical shifts (prices, quantities, measurements)
2. Status changes (employment, relationships, health)
3. Location changes (addresses, venues, destinations)
4. Relationship progressions (social connections)
[Some other categories]

**VERIFICATION:** STOP if no matching fact exists in bullets 1-<num_bullets>-2.

### 2. USER INSTRUCTION (Bullet <num_bullets>+2)
**Format:** ` `*User Instruction:* Always [action] when I ask about [condition]`

**MANDATORY FORMAT:** Must include "when I ask about" - this makes it testable.

**Instruction Types (rotate through all):**
1. Output formatting rules
2. Content restrictions
3. Personal preferences
4. Conditional responses
5. Time-based rules
[Some other categories]

**EXAMPLES:**
[Some examples]

### 3. LOGICAL CONTRADICTION (Bullet <num_bullets>+3)
**Format:** ` `*Logical Contradiction:* [Contradicting fact only]`

**CRITICAL PRE-CHECK:**
1. SCAN bullets 1-<num_bullets>-2 for COMPLETED ACTIONS or PERMANENT STATES:
  - Past tense actions: "visited", "ate", "traveled", "lived"
  - Permanent conditions: "born in", "raised as", "died in"
  - Absolute statements: "never did X", "always was Y"
2. FIND exactly ONE target fact to contradict
3. IF NO COMPLETED ACTIONS EXIST: CREATE setup bullet with completed action, insert between bullets 5-<
  num_bullets>-2, THEN contradict in bullet <num_bullets>+4

FORBIDDEN WORDS/PHRASES (NEVER USE):
"Before this batch", "In this batch", [Other examples]

**RULE:** Only contradict COMPLETED ACTIONS, never plans/intentions.

TEMPORAL QUALIFIER PROBLEM:
[Some examples]

FORBIDDEN WORDS/PHRASES (NEVER USE):
"Before this batch", "In this batch", "Previously",
[Other examples]

**CRITICAL:** Contradiction must make the *same original event/fact IMPOSSIBLE*, not describe a different
event with different outcomes.

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