

4th grade math journal prompts yanjiuore

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4th Grade Math Journal Prompts to Encourage Mathematical Thinking

Yanjiuore

Math journals provide a valuable opportunity for students to engage deeply with mathematical concepts, develop their problem-solving skills, and reflect on their learning. Here are a few thought-provoking journal prompts that can be used to foster mathematical thinking in 4th grade students:

1. Number Talks

- Question: Explain how you solved the number talk problem (e.g., $567 + 45$).
- Answer: "I used the place value chart to add the hundreds, tens, and ones separately. I started with $6 + 5$, then $7 + 4$, and finally $5 + 0$."

2. Problem Solving

- Question: You have 100 stickers to share equally among 5 friends. How many stickers will each friend get? Explain your reasoning.
- Answer: "I first divided 100 by 5. 100 divided by 5 is 20. So, each friend will get 20 stickers."

3. Mathematical Operations

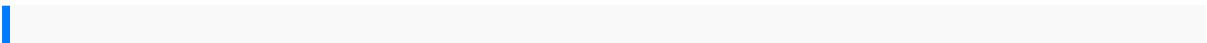
- Question: Show three different ways to multiply 123 by 45.
- Answer: " $123 \times 45 = 5535$ (long multiplication), $123 \times 50 = 6150$ then $6150 - (123 \times 5) = 5535$ (distributive property), $123 \times 40 = 4920$ then $4920 + (123 \times 5) = 5535$ (associative property)."

4. Geometry

- Question: Draw a square that has an area of 49 square units. Explain your thinking.
- Answer: "I know that $7 \times 7 = 49$. So, I drew a square with sides that are 7 units long."

5. Data Analysis

- Question: Create a pictograph or bar graph to represent the favorite fruits of your classmates.
- Answer: "I created a pictograph with each symbol representing five students. I then drew bars representing the number of students who liked each fruit."



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