MATH DISCOURSE FACILITATION STRATEGIES

to support Puzzle Talks

DISCUSSION HAND SIGNALS


I'm thinking.


I agree..


I have an answer.


I disagree.


I have more than one strategy.


I can add to that idea.

ENCOURAGE DEEP THINKING


Explain solutions:
How did you figure that out? Show me.


Justify solutions:
Why do you think that is the answer?


Define math vocabulary:
What do you mean by [*math term*]?


Connect to core curriculum:
Where have you seen this before?

RESPOND THOUGHTFULLY

- Restate without affirming, redirecting, or "rounding up" responses to improve them.
- Try a variety of solutions, not just the ones that could be successful.
- Use incorrect solutions or misconceptions as learning opportunities.
- Pause the animation and use the annotation tools to support observations and understanding.

EXTEND THINKING

What if...	What if the order of the numbers changed?
Limiting Factor	Solve it without using _____ .
Multiple Models	Solve it two ways. Which is most efficient?
Word Problems	Create a word problem for this puzzle.
Real-world	How would a [*profession*] use this concept?