



PURPOSE OF TEACHER QUESTIONING

Encourages students to:

- > want to solve the problem
- > notice what is similar or different from prior problems they have solved
- > consider what they know that may be useful

EXAMPLES OF TEACHER QUESTIONS

- > What is the problem asking?
- > What do we know that might help us solve this problem?



PURPOSE OF TEACHER QUESTIONING

Encourages students to:

- > try to use what they know
- > try to solve the problem using important reasoning tools (mathematical expressions, models, etc.)
- > explain and justify their method

EXAMPLES OF TEACHER QUESTIONS

- > What do you know?
- > What do the numbers in the problem mean?
- > How do the numbers in the problem show up in your picture?
- > How can you convince others?
- > Can you write a mathematical expression for your method?
- > Can you solve the problem in another way?

1. Grasp The Problem

2. Try To Solve

3. Present & Discuss

4. Summarize &
Reflect

New Learning

PURPOSE OF TEACHER QUESTIONING

Encourages students to:

- > understand classmates' ideas and to compare and connect them
- > consider the accuracy, efficiency, and generalizability of presented ideas
- > connect their own ideas with presented ideas

EXAMPLES OF TEACHER QUESTIONS

- > How many solved it this way?
- > Can you explain what Shavon did?
- > Do you agree with this method?
- > What is the same and different about Sam's and Marika's methods?
- > What are the good points and difficulties of each solution method?
- > Are there any more ways to solve this?
- > Will this always be true?



PURPOSE OF TEACHER QUESTIONING

Encourages students to:

- > summarize what they learned
- > individually write about their own learning after hearing classmates' summaries

EXAMPLES OF TEACHER QUESTIONS

- > What did we learn today?
- > How did my ideas change?
- > What method used by a classmate do I want to try?
- > What do I wonder about?