The ISAT Extended Response in Math:
SHOW and TELL

WHAT ISAT REQUIRES

DIRECTIONS

Make sure you
– **show all your work in solving the problem,**
– **clearly label your answer,**
– **write in words how you solved the problem,**
– **write in words why you took the steps you did to solve the problem, and**
– **write as clearly as you can.**

MATHEMATICAL KNOWLEDGE
The response shows complete understanding of the problem's mathematical concepts and principles.

STRATEGIC KNOWLEDGE
The response shows complete evidence of an appropriate strategy that correctly solves this problem.
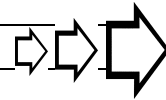
EXPLANATION
The response provides a complete written explanation of the solution process by clearly explaining what was done and why it was done.

Source: ISBE.net

What to do?
   ❖ Model
   ❖ Think Out Loud
   ❖ Student Partners Problem Solve, one writes the steps, the other the   reasons
   ❖ List and post common strategies
   ❖ List and post appropriate reasons
   ❖ Put steps, strategies, and reasons on cards and have students select appropriate elements of their solutions and explanations

Make sure students <u>show</u> and <u>tell</u>.

CHOOSE A STRATEGY

Here are some strategies to solve a problem
__make a model
__see if it will take just one step to solve it or more steps
__guess, check, then correct if I need to
__look for a pattern
__draw a picture or diagram so I could see what I looked like
__figure out what information I need
__underline the information I need and cross out the things I don't need
__make a graph
__choose an operation
__make a list of operations to do
__make a table or chart

SHOW

Solve the problem. Use pictures, graphs, diagrams, lists—other ways to show the problem and how you solve it.

TELL

Tell what you did—and why.
Use as many rows as you need.
We put five rows—you can add more if you need them.
If you don't take five steps, write on only the rows you need to tell what you did.
Be sure to end with checking your work. This is a chart you could use to make sure you tell what you did and why.

What I did	Why I did it this way
First, I	to see
Then I	to figure out
Then I	so that
Then I	because
Finally, I	because