

Math ISAT: Mathematical Reasoning and Problem Solving

Skills: Problem Solving - Solve

Students:

RIT Above 260:

- *No Skills Listed*

Students:

RIT 251-260:

- Applies the most appropriate problem solving strategies (e.g.:
 - Draws a picture
 - Looks for patterns
 - Makes a table or organized list
 - Makes a problem simpler
 - Uses process of elimination
 - Uses trial and error
 - Works backwards
 - Uses models)
- Uses the components of mathematical modeling (e.g.:
 - Problem formulation
 - Mathematical model
 - Solution within the model
 - Interpretation of solution within the model
 - Validation in original real-world problem situation)

Students:

RIT 241-250:

- Applies the most appropriate problem solving strategies (e.g.:
 - Draws a picture
 - Looks for patterns
 - Makes a table or organized list
 - Makes a problem simpler
 - Uses process of elimination
 - Uses trial and error
 - Works backwards
 - Uses models)
- Uses the components of mathematical modeling (e.g.:
 - Problem formulation
 - Mathematical model
 - Solution within the model
 - Interpretation of solution within the model
 - Validation in original real-world problem situation)

Students:

RIT 231-240:

- Applies the most appropriate problem solving strategies (e.g.:
 - Draws a picture
 - Looks for patterns
 - Makes a table or organized list
 - Makes a problem simpler
 - Uses process of elimination
 - Uses trial and error
 - Works backwards
 - Uses models)
- Organizes information from a paragraph to solve a problem
- Uses the components of mathematical modeling (e.g.:
 - Problem formulation
 - Mathematical model
 - Solution within the model
 - Interpretation of solution within the model
 - Validation in original real-world problem situation)

Students:

RIT 221-230:

- Applies a variety of problem solving strategies (e.g.:
 - Draws a picture
 - Looks for patterns
 - Makes a table or organized list
 - Makes a problem simpler
 - Uses process of elimination
 - Uses trial and error
 - Works backwards
 - Uses models)
- Organizes information from a paragraph to solve a problem
- Applies a problem solving model that incorporates understanding the problem, making a plan, carrying out the plan, and evaluating the solution for reasonableness

Students:

RIT 211-220:

- Applies a variety of problem solving strategies (e.g.:
 - Draws a picture
 - Looks for patterns
 - Makes a table or organized list
 - Makes a problem simpler
 - Uses process of elimination
 - Uses trial and error
 - Works backwards
 - Uses models)
- Applies a problem solving model that incorporates understanding the problem, making a plan, carrying out the plan, and evaluating the solution for reasonableness

Math ISAT: Mathematical Reasoning and Problem Solving

Skills: Problem Solving - Solve

Students:

RIT 201-210:

- Uses a variety of problem solving strategies (e.g.:
 - Draws a picture
 - Looks for patterns
 - Makes a table or organized list
 - Makes a problem simpler
 - Uses process of elimination
 - Uses trial and error
 - Works backwards
 - Uses models)
- Uses a problem solving model that incorporates understanding the problem, making a plan, carrying out the plan, and evaluating the solution for reasonableness

Students:

RIT 191-200:

- Uses a variety of problem solving strategies (e.g.:
 - Draws a picture
 - Looks for patterns
 - Makes a table or organized list
 - Makes a problem simpler
 - Uses process of elimination
 - Uses trial and error
 - Works backwards
 - Uses models)
- Uses a problem solving model that incorporates understanding the problem, making a plan, carrying out the plan, and evaluating the solution for reasonableness

Students:

RIT 181-190:

- Uses a structured model to solve problems using a variety of strategies (e.g.:
 - Draws a picture
 - Looks for patterns
 - Makes a table or organized list
 - Makes a problem simpler
 - Uses process of elimination
 - Uses trial and error
 - Works backwards
 - Uses models)
- Follows a model of problem solving that incorporates understanding the problem, making a plan, carrying out the plan, and evaluating the solution for reasonableness

Students:

RIT 171-180:

- Uses a structured model to solve problems using a variety of strategies (e.g.:
 - Draws a picture
 - Looks for patterns
 - Makes a table or organized list
 - Makes a problem simpler
 - Uses process of elimination
 - Uses trial and error
 - Works backwards
 - Uses models)
- Follows a model of problem solving that incorporates understanding the problem, making a plan, carrying out the plan, and evaluating the solution for reasonableness

Students:

RIT 161-170:

- Uses a structured model to solve problems using a variety of strategies (e.g.:
 - Draws a picture
 - Looks for patterns
 - Makes a table or organized list
 - Makes a problem simpler
 - Uses process of elimination
 - Uses trial and error
 - Works backwards
 - Uses models)
- Follows a model of problem solving that incorporates understanding the problem, making a plan, carrying out the plan, and evaluating the solution for reasonableness

Students:

RIT Below 161:

- *No Skills Listed*