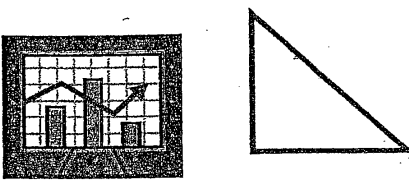
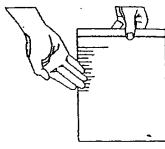





PROBLEM SOLVING STRATEGIES

5-8

<p>Draw a picture or a graph</p> 	<p>Use a Systematic (Organized) List</p> 
<p>Guess and Test</p> <p>?</p>	<p>Do a Simpler Problem</p> $14.37 - \square = 12.4$ $14 - \square = 12$
<p>Work Backwards</p> 	<p>Write an Equation Use a Formula</p> 
<p>Find A Pattern</p> <p>2,4,6,8</p>	<p>Eliminate Possibilities</p> 

Fourth Grade Math Problem Solving Rubric

Expert

- ◆ Correct solution that includes accurate math model and correct math equation with appropriate labels
- ◆ Chooses and uses an efficient and correct strategy
- ◆ Clearly explains all steps of the process using correct math language
- ◆ Answer and/or solution moves beyond the problem

Practitioner

- ◆ Mostly correct solution that includes a math model and correct math equation with appropriate labels
- ◆ Uses a strategy that leads to a solution of the problem
- ◆ Clearly explains most steps using correct math language

Apprentice

- ◆ Solution is incorrect or not complete, **or** solution has inaccurate or missing math model or number equation
- ◆ Attempted a strategy
- ◆ Incomplete explanation using some math language

Novice

- ◆ No solution, math model, or number equation **or** math model and number equation do not match the problem
- ◆ No strategy
- ◆ No explanation

*** A Math Model is a visual representation of the problem. Students should consider a sketch, table, chart, number line, diagram, organized list, matrix, or graph all examples of Math Models.*

Grades 5-8 Math Problem Solving Rubric

Expert

- ◆ Correct solution that includes accurate math model and correct math equation
- ◆ Chooses and uses an efficient and correct strategy
- ◆ Clearly explains all steps of the process using correct math language
- ◆ Correct and complete labels throughout the problem

Practitioner

- ◆ Mostly correct solution that includes a math model and correct math equation
- ◆ Uses a strategy that leads to a solution of the problem
- ◆ Clearly explains most steps using correct math language
- ◆ Correct and complete labels throughout the problem

Apprentice

- ◆ Solution is incorrect or not complete, or solution has inaccurate or missing math model or number equation
- ◆ Attempted a strategy
- ◆ Incomplete explanation using some math language
- ◆ Inconsistent or incorrect labels

Novice

- ◆ No solution, math model, or number equation or math model and number equation do not match the problem
- ◆ No strategy
- ◆ No labels
- ◆ No explanation

*** A Math Model is a visual representation of the problem. Students should consider a sketch, table, chart, number line, diagram, organized list, matrix, or graph all examples of Math Models.*