

Reynolds School District No. 7

2000-2001 Mathematics Problem Solving Bank

The 2000-2001 revised RSD Problem Solving Bank provides teachers at each grade level with a packet of common mathematics tasks. These tasks are intended to:

1. Help students learn mathematical problem solving skills.
2. Prepare students to earn the Oregon CIM.
3. Provide collection of evidence work sample entries.

The tasks also serve as a support to teachers as they provide all students with consistent problems and reliable scoring as an integral aspect of learning mathematics.

At each grade level the revised Problem Solving Bank includes student problems and an appendix: 2000-2001 scoring guides, problem solving hints and habits and black line masters. The tasks in the Bank address each of the Oregon Content Standards Strands:

Grades K-5	Grades 6-10
<ul style="list-style-type: none">• Computation and Estimation• Measurement• Geometry• Algebraic Relationships• Probability and Statistics	<ul style="list-style-type: none">• Probability and Statistics• Geometry• Algebraic Relationships• Measurement (middle school)

Reynolds is requiring that students have two (2) distinct mathematics work samples in their 2000-2001 Collection of Evidence. These work samples must represent a student's effort in a variety of strands.

The Oregon Mathematics Problem Solving Assessment at grades 5, 8 and 10 allows students to choose one of three tasks to solve. The tasks in the Bank include only one problem per page. Teachers will need to prepare students to be able to analyze several tasks and to make a choice as to which task will best ensure success on the formal State assessment.

Teachers are encouraged to use as many of these tasks as possible, but are equally encouraged to gather, adapt and use appropriate problems from other resources. A work sample may be collected under assessment conditions or as a regular classroom assignment, and may be revised by the student.

Please keep your school's math representative informed of students' success or lack thereof with these tasks so that appropriate additions, deletions or modifications can be made to the RSD Problem Solving Bank.

Third Grade Problem Solving Tasks

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Algebraic Relations

3A01	Bags of Potatoes	Function
3A02	Calendar Pattern.....	Pattern
3A03	How Many Fathoms?.....	Function
3A04	Jellybean Counter.....	Pattern
3A05	Work on the Farm.....	Function

Calculations and Estimations

3C01	Legs! Legs! Legs!.....	Multiplication and Comparisons
3C02	Marty's Activities.....	Addition & Subtraction with Money
3C03	Selling Marbles.....	Multiplication & Addition
3C04	33¢.....	Addition & Coin Value
3C05	Tile Arrays.....	Multiplications
3C06	Mystery Number	Number Sense
3C07	Riddle Me Number	Addition & Subtractions

Geometry

3G01	More Rectangles	Congruent & Similar Shapes
3G02	Reynolds	Symmetry
3G03	Symmetrical House.....	Symmetry
3G04	Triangle Sort.....	Triangle Attributes
3G05	What's In a Shape?	Shapes Attributes
3G06	Angle Sort.....	Angles
3G07	Men From the Moon.....	Shapes

Measurement

3M01	Area: 16 Square Centimeters.....	Area (Rectangle)
3M02	Aura's Backyard	Perimeter (Rectangle)
3M03	Ty's Money.....	Money
3M04	Perimeter: 14 Inches.....	Perimeter (Rectangle)
3M05	When's Lunch?.....	Elapsed Time
3M06	Practice Times.....	Elapsed Time

Probability and Statistics

3P01	Carnival Rides.....	Permutations (Combinations)
3P02	Coming to School.....	Statistics: Make a Graph
3P03	Fair Game?.....	Probability
3P04	Marbles in a Bag!.....	Probability
3P05	This Game is Not Fair!.....	Probability
3P06	Jolly Ranchers.....	Statistics: Make a Graph

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