

Name: _____

Portfolio Problem 1: Part A

Choose one of the following strategies: draw a diagram, use a picture, or eliminate possibilities (**a table is NOT a picture/diagram**) (choose one of these strategies)

Prescribed Strategy:

Problem:

Answer the questions on the back of this page.

What mathematical ideas should the students know in order to be able to do this problem?

What additional ideas should the students learn from doing this problem?

What should the teacher know for this problem?

For instructor use only.

Completeness:	Is the problem well written and are all questions answered?				
	5	4	3	2 1	0
Quality:	Are the answers to the questions clear and mathematically sound?				
	5	4	3	2 1	0

Name: _____

Portfolio Problem 1: Part B

Solve the problem (If the problem cannot be solved as written, please explain in detail why and suggest ways to fix the problem so that it can be solved.)

Answer the questions on the back of this page.

What could be added to the problem to make it clearer or what information is unnecessary for the problem and does not add value?

Was the problem most easily solved using the prescribed strategy?

Was the problem appropriate for grade 4-7?

Other than what was suggested in Part A, are there additional mathematical ideas a student doing this problem should know?

Other than what was suggested in Part A, are there additional mathematical ideas a teacher should know?

Give a suggestion on how the problem could be improved or modified in a constructive way.

For instructor use only.

Completeness:	Is the solution complete and are all questions answered?				
	5	4	3	2 1	0
Quality:	Are the answers to the questions clear and mathematically sound?				
	5	4	3	2 1	0

Name: _____

Portfolio Problem 1: Part C

Revised Problem:

Solution:

Verification:

For instructor use only.

PROBLEM				
Strategy	0	1	2	
Math Idea	0	1	2	
Story	0	1	2	
Clarity	0	1	2	3
Revision	0	1	2	3
SOLUTION	0	1	2	3 4 5 6
VERIFICATION	0	1	2	3 4 5
Total				/ 22

Name: _____

Portfolio Problem 2: Part A

Choose one of the following strategies: use sub-problems or patterns or counting techniques (choose one)

Prescribed Strategy:

Problem:

Answer the questions on the back of this page.

What mathematical ideas should the students know in order to be able to do this problem?

What additional ideas should the students learn from doing this problem?

What should the teacher know for this problem?

For instructor use only.

Completeness:	Is the problem well written and are all questions answered?				
	5	4	3	2 1	0
Quality:	Are the answers to the questions clear and mathematically sound?				
	5	4	3	2 1	0

Name: _____

Portfolio Problem 2: Part B

Solve the problem (If the problem cannot be solved as written, please explain in detail why and suggest ways to fix the problem so that it can be solved.)

Answer the questions on the back of this page.

What could be added to the problem to make it clearer or what information is unnecessary for the problem and does not add value?

Was the problem most easily solved using the prescribed strategy?

Was the problem appropriate for grade 4-7?

Other than what was suggested in Part A, are there additional mathematical ideas a student doing this problem should know?

Other than what was suggested in Part A, are there additional mathematical ideas a teacher should know?

Give a suggestion on how the problem could be improved or modified in a constructive way.

For instructor use only.

Completeness:	Is the solution complete and are all questions answered?				
	5	4	3	2 1	0
Quality:	Are the answers to the questions clear and mathematically sound?				
	5	4	3	2 1	0

Name: _____

Portfolio Problem 2: Part C

Revised Problem:

Solution:

Verification:

For instructor use only.

PROBLEM				
Strategy	0	1	2	
Math Idea	0	1	2	
Story	0	1	2	
Clarity	0	1	2	3
Revision	0	1	2	3
SOLUTION	0	1	2	3 4 5 6
VERIFICATION	0	1	2	3 4 5
Total				/ 22

Name: _____

Portfolio Problem 3: Part A

Choose one of the following strategies: use Venn diagrams, work backwards, or algebra

Prescribed Strategy:

Problem:

Answer the questions on the back of this page.

What mathematical ideas should the students know in order to be able to do this problem?

What additional ideas should the students learn from doing this problem?

What should the teacher know for this problem?

For instructor use only.

Completeness:	Is the problem well written and are all questions answered?				
	5	4	3	2 1	0
Quality:	Are the answers to the questions clear and mathematically sound?				
	5	4	3	2 1	0

Name: _____

Portfolio Problem 3: Part B

Solve the problem (If the problem cannot be solved as written, please explain in detail why and suggest ways to fix the problem so that it can be solved.)

Answer the questions on the back of this page.

What could be added to the problem to make it clearer or what information is unnecessary for the problem and does not add value?

Was the problem most easily solved using the prescribed strategy?

Was the problem appropriate for grade 4-7?

Other than what was suggested in Part A, are there additional mathematical ideas a student doing this problem should know?

Other than what was suggested in Part A, are there additional mathematical ideas a teacher should know?

Give a suggestion on how the problem could be improved or modified in a constructive way.

For instructor use only.

Completeness:	Is the solution complete and are all questions answered?				
	5	4	3	2 1	0
Quality:	Are the answers to the questions clear and mathematically sound?				
	5	4	3	2 1	0

Name: _____

Portfolio Problem 3: Part C

Revised Problem:

Solution:

Verification:

For instructor use only.

PROBLEM			
Strategy	0	1	2
Math Idea	0	1	2
Story	0	1	2
Clarity	0	1 2	3
Revision	0	1 2	3
SOLUTION	0 1	2 3 4	5 6
VERIFICATION	0 1	2 3	4 5
Total			/ 22