



# Port Augusta Secondary School – Mathematics Faculty

## Investigation Final Report Template

### Task Cover Sheet

Task Name	
Your Name	
Group Members	
Class	
Teacher Name	

Random Target Number		Number Mix							
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# Introduction

What is the situation being investigated?

What is the aim of the task, what is it you are being asked to solve?

How will the work on order of operations play a role in solving this problem? What else might you need to use?

# Mathematical Method

How did you approach the problem, where did you start? What are the things you did as you worked through this investigation?

Why did your group choose the target range that it did? (e.g if you picked the level 2 target range then why didn't you pick level 1 or 3?)

What mix of large and small numbers did you pick and how did you think this would help you to determine your solutions for your number range? (e.g. if you chose 2 large and 4 small, why did you choose only 2 large? How did you think these large numbers would help?)

Were there any patterns in your solutions or shortcuts that you found that helped you to find solutions to your target numbers? What were they and how did they help?

What were some of the more significant problems you came across in completing this task? How did you overcome them?

# Mathematical Results

In documenting your mathematical results you will need to include your target number, the solution you have come up with (written as a whole number sentence) as well as showing how you would work out that solution. The image shown opposite as an example of what your solution should look like in this section. If working as part of a group this section should only include your 10 solutions.

Target	Answer and Working Out
83	$7 \times (8 + 4) - 1$
	$= 7 \times 12 - 1$
	$= 84 - 1$ $= 83$

Target	Answer and Working Out	Target	Answer and Working Out

Target	Answer and Working Out	Target	Answer and Working Out

# Conclusion

Write a brief summary of the main results or findings.

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To what extent was the aim of the investigation achieved?

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What did you learn as a result of this task?

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