## Island Numeracy Assessment Grade 6+: Patterning

#### **Collaborative Task 1**

### Complete the following problems

(if the students can easily solve the first problem then have them solve the second one or have them choose which problem they would like to try):

$$+x=$$

Using the digits 1 to 9 **at most once**, create an equation where x has the greatest value.

$$x = \begin{bmatrix} x \\ y \end{bmatrix}$$

Using the digits 1 to 9 at most one time each, place a digit in each box to make the equation true.

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## **Collaborative Task 2**

A student has five cubes. Each one is 2 cm taller than the previous one. The largest cube is the same height as a tower built of the two smallest cubes.

How high would a tower of all five cubes be?

# Island Numeracy Assessment Grade 6+: Number Sense A

essm	ent Questi	ion		Reflections
1. Sol				
2. Sol	ve for x. Sh	now your th	inking.	
3. Usi	ng the patt	ern rule, 4n	+ 3 fill in the table below.	
	Input	Output		
	1	7		
	2			
	3			
	4	19		
	5			
	table of va	llues below.	rn rule might be using the information in	ו
	Input	Output		
	1	3		
	2	5		
	3	7		
	4	9		
			•	

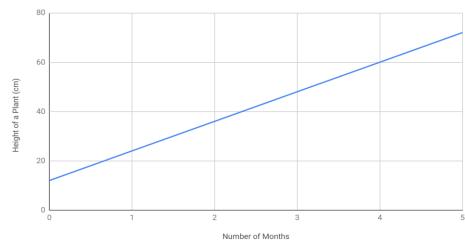
5. Power is measured in Watts (W).

Using the information in the chart below, determine the amount of power one solar panel would produce in one day.

Number of Solar panels	Total Amount of Power produced per day
5	600 W
4	480 W
3	360 W
2	240 W
1	?

6. When a student bought a plant, it was 13 cm tall. How much did the plant grow in the 4 months after buying the plant?

Height of a Plant Over Time



7. Using the se				
Term 1	Term 2	Term 3	Term 4	

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### **Performance Task:**

In the center of the page you will see the first 4 terms in a pattern series. Look at the pattern and determine how it changes for each term and then using that information complete the table below.

