## PENANG SANGAM HIGH SCHOOL YEAR 11 PHYSICS WEEK 4

	length = 27.3 cm width = 15.5 cm		height = 5.4 cm						
6.	The dimensions of	of a box ar	e given as foll	ows:					
5.	Express <b>0.00201</b> 9	in standa	ard form.						
	A. Mass	В.	Distance	C.	Weight	D.	Press	sure	
4.	Which of the following quantities represent a vector?								
	A. 2	В.	3	C.	4		D.	6	
3.	The number of sign	gnificant f	figures in 1020	0.00 is		_·			
	A. Force	B.	Ampere	C.	Joule	D.	Volta	ıge	
2.	Which of the follo	owing is a	n example of	a fundan	nental unit	?			
	A. deca	B.	hecto	C.	kilo		D.	meg	
1.	The correct prefix to represent 10 <sup>6</sup> is								

Calculate the volume of the box using the appropriate number of significant figures.

Hint: round answer to least number of significant figures

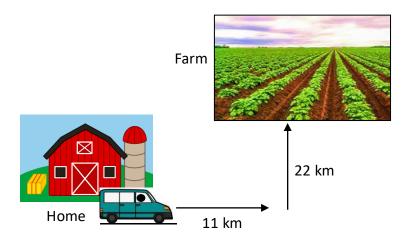
7. A group of Year 11 students investigated the effect of resultant force (F) on the acceleration (a) of a trolley. The results obtained are shown in the table given below.

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F(N)	1.0	2.0	3.0	4.0	5.0	6.0
a (ms <sup>-2</sup> )	0.2	0.4	0.6	0.8	1.0	1.2

(i) plot a graph of acceleration versus force. (put title first, draw both axis, label axis, Plot points and join them)

- (ii) Identify the type of relationship depicted by the graph in (i) above. (shape of the graph or the table of values will give an idea of the relationship)
- 8. A vegetable farmer drives 11 km East and then 22 km North from his home to reach his farm as shown in the diagram below.



Calculate the displacement of the vegetable farmer at the end of the journey indicating the correct direction.

( vector addition, join starting point to ending point, find the length of the line using Pythagoras theorem)