

## Graphing Data – NRF 10

1. For each table of values below:

i) Graph the data. Be sure to label independent and dependent axis and give the graph a title. Decide on appropriate increments for both axis depending on the values.

a) At a constant pressure, the speed of sound in air depends on the air temperature.

Air Temperature (°C)	Speed of Sound (m/s)
0	331
5	334
10	337
15	340
20	343

Will you join the points on this graph? \_\_\_\_\_

Why or why not? \_\_\_\_\_  
\_\_\_\_\_

Does this graph represent a function? \_\_\_\_\_

Explain. \_\_\_\_\_  
\_\_\_\_\_

b) The recommended daily dose of vitamin C depends on age in years.

Age (years)	Dose of Vitamin C Tablet (mg)
3	15
6	25
9	45
12	45
15	65
18	65
21	75

Will you join the points on this graph? \_\_\_\_\_

Why or why not? \_\_\_\_\_  
\_\_\_\_\_

Does this graph represent a function? \_\_\_\_\_

Explain. \_\_\_\_\_  
\_\_\_\_\_

c) The cost of the juice is a function of the number of cans purchased.

Number of Cans of Juice purchased (n)	Cost, C (\$)
1	2.39
2	4.00
3	6.39
4	8.00
5	10.39
6	12.00

Will you join the points on this graph? \_\_\_\_\_

Why or why not?

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Does this graph represent a function? \_\_\_\_\_

Explain.

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d) The air temperature is a function of the altitude.

Altitude, A (m)	Temperature, T (°C)
610	15.0
1220	11.0
1830	7.0
2440	3.0
3050	-1.0
3660	-5.0

Will you join the points on this graph? \_\_\_\_\_

Why or why not?

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Does this graph represent a function? \_\_\_\_\_

Explain.

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