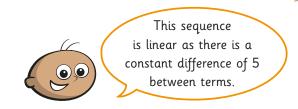


Is the sequence linear or non-linear? Explain how you know.

Is the sequence linear or no	on-linear?
<b>α)</b> 3, 9, 15, 21	<b>d)</b> 12.5, 13, 13.5, 14, 14.5
<b>b)</b> 1, 3, 6, 10	<b>e)</b> 3, $3\frac{2}{3}$ , $4\frac{1}{3}$ , 5
<b>c)</b> 81, 72, 63	<b>f)</b> 7, 5, 3, 1, 0



0, 5, 10, 15, 10, 5, 0, 5, 10, 15, 10, 5, 0 ...

Is Tommy correct? Explain how you know.

## b) non-linear

Position	1	2	3
Term	9	18	

Position	1	2	3
Term	9	18	



a) Which tables show linear sequences?

Position	1	2	3	4	5
Term	20	17	14	11	8

Position	1	2	3	4	5
Term	2	6	12	20	30

Position	1	2	3	4
Term	0.4	0.8	1.2	1.6

## Linear and non-linear sequences

a) linear

Position

Term

Position

Position

Term

Term

1

20

1

2

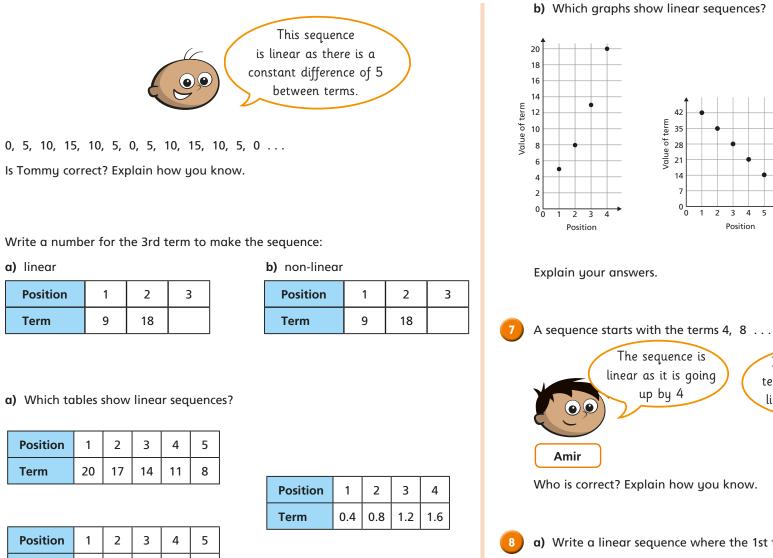
6

12

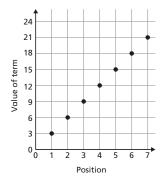
20

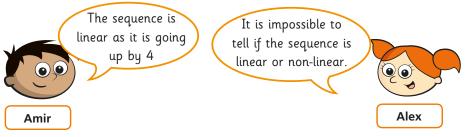
30





## b) Which graphs show linear sequences?





2 З Δ 5 6

Position

Who is correct? Explain how you know.

a) Write a linear sequence where the 1st term is 75 and the 2nd term is 225

b) Write a non-linear sequence where the 1st term is 75 and the 2nd term is 225

Compare sequences with a partner. Is it possible to come up with more than one sequence for each type? Why?

Predict the 5th term in each of your sequences.