

Continue linear sequences

	Wr	rite the next three terms in these linear sequences.
	a)	81, 108, 135,,
	b)	900, 1100,,,
	c)	0.2, 0.4, 0.6, 0.8,
	d)	3.22, 2.88, 2.54, , , ,
	e)	16, 12, 8,
2	a)	A linear sequence has a constant difference of 27 and the 3rd term is 592
		Find the missing terms.
		, 592 ,
	b)	A linear sequence has a constant difference of 19 and the 4th term is 101
		Find the missing terms.
		, [], 101,
	c)	Is there more than one possible answer to parts a) and b)?
		Talk about it with a partner.

3	A linear sequence starts with 3,000 and has a constant difference of 250
	Write the next four terms of the sequence if the sequence is:
	a) ascending
	3000,
	b) descending
	3000, , , , , , , , , , , , , , , , , ,
	s there more than one answer? Why?
	m) A descending linear sequence has 100 as the 1st term and a constant
4	a) A descending linear sequence has 100 as the 1st term and a constant difference of 1
	Write the first five terms of the sequence.
	b) A descending linear sequence has 10 as the 1st term and a constant difference of 0.1
	Write the first five terms of the sequence.
	What do you notice about your answers to part a) and b)?



5	a)	How many linear sequences can you create starting with 59, 52?
	b)	How many linear sequences can you create that start with 59 and have a constant difference of 7?
	c)	How many linear sequences can you create starting with 59?
	d)	Look at a partner's answers. How many terms do you need to be able to continue a linear sequence?
6	The	e 5th term of a linear sequence is 60 e constant difference is 8 nat is the difference between the 1st and the 10th term?

	nd the first eigh		•		
WI	nat do you not			in the sequence?	
ls i	t possible to h	ave an integer	term in this	sequence? Explo	ıin your ans
	ow many differ e always a rep		uences can y	ou create where	the last dig

