

Unit 1: Lesson 8

Name _____

Guided Learning Task 1

a) What number is here?

3,623,854

This is the starting number for all these questions.

millions	thousands						ones		
units of millions	hundreds of thousands	tens of thousands	units of thousands	hundreds	tens	units			
●	●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●	●
●	●		●	●	●	●	●	●	●
	●				●	●		●	●
	●				●	●			

b) 3,623,854 3,624,854 3,625,854 3,626,854 3,627,854
 Starting number +1,000 +1,000 +1,000 +1,000

c) 3,623,854 3,623,954 3,624,054 3,624,154 3,624,254
 Starting number +100 +100 +100 +100

d) 3,623,854 3,613,854 3,603,854 3,593,854 3,583,854
 Starting number - 10,000 - 10,000 - 10,000 - 10,000

Guided Learning Task 2

e) 34.215 34.235 34.255 34.275 34.295
 Starting number + 0.02 + 0.02 + 0.02 + 0.02

f) 768,332 765,332 762,332 759,332 756,332
 Starting number - 3,000 - 3,000 - 3,000 - 3,000

g) 27.016 27.011 27.006 27.001 26.996
 Starting number - 0.005 - 0.005 - 0.005 - 0.005

h) What is the rule for this sequence? **Add 12,000**

689,255 701,255 713,255 725,255 737,255

Which pair of numbers did you use to identify the step size? Why?

Any adjacent pair other than the first two because it is easier to identify the step size when the step does not cross a boundary

Independent Learning Tasks

- i)

787,400	887,400	987,400	1,087,400	1,187,400
Starting number	+100,000	+100,000	+100,000	+100,000
- j)

8.352	8.252	8.152	8.052	7.952
Starting number	- 0.1	- 0.1	- 0.1	- 0.1
- k)

56,352	55,252	54,152	53,052	51,952
Starting number	- 1,100	- 1,100	- 1,100	- 1,100
- l)

23.656	24.856	26.056	27.256	28.456
Starting number	+1.2	+1.2	+1.2	+1.2

m) Fill in the blanks in this counting sequence:

142,222	135,222	128,222	121,222	114,222	107,222
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n) Fill in the blanks in this counting sequence:

14.3	14.5	14.7	14.9	15.1	15.3
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o) Fill in the blanks in this counting sequence:

42,800	43,100	43,400	43,700	44,000	44,300
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p) The numbers in this sequence increase by 7 each time.

1 8 15 22 29

The sequence continues in the same way.

Will the number 777 be in the sequence? No

Explain how you know. The step size is 7 but the sequence does not start from a multiple of 7 so no multiples of 7 will appear, including 777.