Unit 5	Check	for	Understanding	#1
Ollita	CHECK	101	CHACL STOLINING	11.7

Name:	Date:	Per:

Before you begin, read the rubrics. If you have read the rubrics, please put a star in the box next to your name.

FJE1	Mastery (4)	Proficient (3)	Nearly Proficient (2)	Needs Improvement (1)
Determine whether a situation is linear or exponential	Student correctly identifies both linear and exponential relationships from tables. Student determines whether a situation represents a linear or exponential relationship and justifies the relationship using mathematics.	Student correctly identifies both linear and exponential relationships from tables and justifies the relationships using mathematics.	Student correctly identifies the relationships as either linear or exponential but is not always able to justify mathematically.	Student shows little understanding or no work is shown,

Determine whether each table has a linear or exponential relationship. Justify how you decided either in words or using mathematics.

a.

n	t(n)
0	1
1	3
2	5
3	7

b,		(v	1)
	ŧ	₹,	47

n	t(n)
2	9
4	17
6	25
8	33

n	t(n)
0	3
1	6
2	12
3	24

Rule:

2. Digger the Dog saves the same number of boxes each week. What type of relationship does the total number of saved boxes represent? Explain your thinking. T(n) = T(n-1) + 2 T(n) = T(n-1) + 3 + 2(n-1) T(n) = 5 + 4(n-1)  $T(n) = (6/2)^{n-1}$ 

$$\tau(n) = 5 + 4(n-1)$$

F-BF 2	Mastery (4)	Proficient (3)	Nearly Proficient (2)	Needs Improvement (1)
Determine	Student correctly describes the growth pattern,	Student correctly describes the growth	Student minimally describes the	Student shows
whether a	determines multiple terms of the sequence,	pattern, determines the third through fifth	growth pattern and identifies the	little
sequence is arithmetic or	and mathematically justifies the sequence as	terms of the sequence, and mathematically	sequence as arithmetic and/or	understanding
geometric	arithmetic and/or geometric. Student uses	justifies the sequence as arithmetic and/or	geometric.	or no work is
	complete sentences.	geometric.		shown.

Maggie was doing her homework when her dog bit off a piece of the paper. All she had left was the start of the sequence:

4, 12, and the fact that 972 was some term of the sequence.

Could the sequence be arithmetic? Why or why not?

T(n)=4+8(n-1)

b. Could the sequence be geometric? Why or why not?

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the sequence be geometric? Why or why not?

968 = 8 (N-1)

Because N

Whole # 972

15 a fer m Value

171 = N-1

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