

Name: _____ Date: _____

PATTERNING Grade 3 **STUDY GUIDE** Quiz
* Mon. Dec. 16

1. a) Look at the pattern below. Explain which attributes change.



b) List the attributes that change in the pattern below. Tell how they change.

Ki_tKi_tKi_tKi_tKi_t

2. Place counters on a 100 chart for each pattern. Describe each pattern made by the counters.

a) 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, ...

b) 98, 95, 92, 89, 86, 83, 80, 77, 74, 71, ...

3. Write a pattern rule for each number pattern in Question 2.

- a) _____
- b) _____

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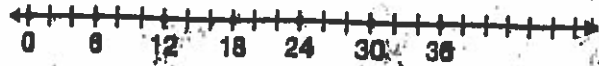
4. a) Complete the t-chart with 9 rows for the tricycle pattern.

Number of tricycles	Number of wheels
1	3
2	
3	
4	
5	
6	
7	
8	
9	

b) Write the pattern rule that you see in the T-chart.

c) How many wheels are there on 7 tricycles? _____ wheels

5. Look at the pattern marked on the number line below. Which of the following patterns uses the same pattern rule?



- a) 3, 6, 9, 12 b) 3, 9, 15, 21 c) 6, 11, 16, 21 d) 6, 12, 24, 48

6. Samantha creates a number pattern. She starts at 65 and subtracts 5 each time. Which of the following shows the first 4 numbers of Samantha's pattern?

- a) 65, 55, 45, 35 c) 65, 75, 85, 95
 b) 65, 70, 75, 80 d) 65, 60, 55, 50

7. Jocelyn gives away the same number of stickers each day.

On Day 1 she has 98 stickers.

On Day 2 she has 93 stickers.

On what day will she have exactly 63 stickers?

Show your work.

