



- 1. Describe the following pattern as you move from one term to the next: $1, 3, 5, 7, \dots$
- 2. When defining a number sequence (pattern) it is common that you would look for a ______ to apply when looking for any term in the sequence.
- 3. Keith created a number sequence as shown at the right.

Term(n)	1	2	3	4
Value	2	4	6	8

What rule explains Keith's number sequence?

4. The number sentence y = x + 1 was used to create the table at the right What is the value of y when x = 8?

X	у
2	3
4	5
6	7
8	

- A) 6
- B) 9

- C) 10
- D) 11

Patterns,	Sequences

Long-Term Memory Review Review 2

- 1. Describe the following pattern as you move from one term to the next: 3, 9, 27, 81,
- 2. When defining a number sequence _____it is common that you would look for a rule to apply when looking for any tern in the sequence.
- 3. Kerry created a number sequence as shown at the right.

Term(n)	2	4	6	8
Value	10	20	30	

Complete the chart and state what rule explains Kerry's number sequence?

4. The number sentence y = x + 5 was used to create the table at the right. What is the value of y when x = 12?

Х	у
6	11
8	13
10	15
12	

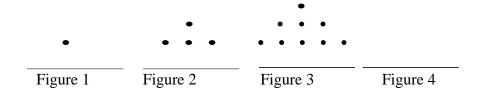
- A) 17
- B) 24
- C) 30
- D) 60

5.	Lyle charges \$8 per hour for mowing lawns. Make a chart to show how much money Lyle earns each
	day for mowing 2 hours the first day, 4 hours the second day, and 6 hours the third day.
	Let $H =$ the number of hours and $T =$ total amount of money earned.

Н	2	4	6		10
T				•••	

How much will he earn for 10 hours of mowing lawns?

6. How many dots will be in the next figure? Draw the figure and explain how you arrived at this answer.



Explanation:

Long-Term Memory Review Review 3

- 1. Describe the following pattern as you move from one term to the next: 11, 13, 15, 17,
- 2. When defining a number sequence (pattern) it is common that you would look for a rule to apply when looking for any ______ in the sequence.
- 3. Karen created a number sequence as shown at the right.

n	3	5	6	10
Value	5	7	8	

Complete the table and write the rule for the number sequence?

4. Gloria created a number pattern following the rule of 2x + 5.

The table at the right shows 3 samples from her number pattern. What is the value of y when x = 15?

х	у
4	13
7	19
12	29
15	

- A) 22
- B) 30
- C) 35
- D) 44
- 5. Tammy charges \$4 per hour for babysitting. Make a chart to show how much money Tammy earns for babysitting 1, 2, 3, 4, and 5 hours.

Let H = the number of hours and T = total amount of money earned.

Н	1	2	3	4	5	•••	8
T						•••	

How much will she earn for 8 hours of baby-sitting?

6. Draw a pattern of dots where Figure 1 has 2 dots, Figure 2 has 4 dots, Figure 3 has 6 dots, and Figure 4 has 8 dots. If the pattern continues, then draw and state the number of dots in Figure 5.

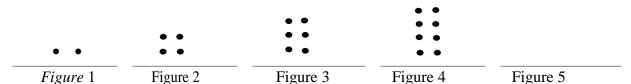
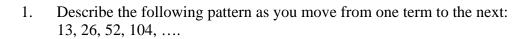


Figure 5 has _____ dots.

Long-Term Memory Review Review 4



- 2. When defining a number _____ (pattern) it is common that you would look for a rule to apply when looking for any term in the sequence.
- 3. Kim created a number sequence as shown at the right.

n	5	8		12	15
Value	10		22		30

Complete the table and write the rule for the number sequence.

- 4. Maggie created a pattern showing square numbers beginning with 1. 1, 4, 9, 16, _____, 36, 49.
 - A) 21

- B) 25
- C) 32
- D) 35
- 5. Lyle charges \$7 per hour for mowing lawns, Make a chart to show how much money Lyle earns each day for mowing 3 hours the first day, 4 hours the second day, and 5 hours the third day.

 Let H = the number of hours and T = total amount of

Let H = the number of hours and T = total amount of money earned.

Н	3	4	5	•••	10
T					

How much will he earn for 10 hours of mowing lawns?

6. How many dots will be in each of the next two figures?

Draw the figures and explain how you arrived at these answers.

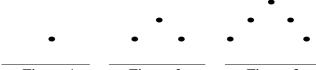
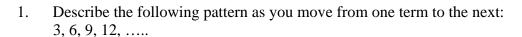


Figure 1 Figure 2 Figure 3 Figure 4 Figure 5

Explanation:

Patterns, Sequences
Long-Term Memory Review
<u>Quiz</u>



- 2. When defining a number sequence (pattern) it is common that you would look for a ______ to apply when looking for any term in the sequence.
- 3. Ken created a number sequence as shown at the right.

n	3	5	7	9
Value	12	20	28	36

What rule explains Ken's number sequence?

4. The number sentence y = x + 5 was used to create the table at the right. What is the value of y when x = 12?

X	у
6	11
8	13
10	15
12	

- A) 17
- B) 24
- C) 30
- D) 60
- 5. Tammy charges \$3 per hour for babysitting. Make a chart to show how much money Tammy earns for babysitting 1, 2, 3, 4, and 5 hours.

Let H = the number of hours and T = total amount of money earned.

Н	1	2	3	4	5	 8
T						

How much will she earn for 8 hours of babysitting?

6. How many dots will be in the next figure? Draw the figure and explain how you arrived at this answer.

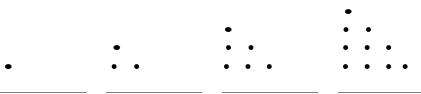


Figure 1 Figure 2 Figure 3 Figure 4 Figure 5

Explanation:

Long-Term Memory Review

ANSWERS

Review 1 Answers

- 1) Add 2 to the preview term
- 2) Rule
- 3) N x 2 or 2N
- 4) B. 9

Review 2 Answers

- 1) Multiply the previous term by 3
- 2) pattern
- 3) 40; N x 5 or 5N
- 4) A. 17

5)	Н	2	4	6		10		
	\$	16	32	48	•••	80	;	\$80

6)

• • • • • ; each row has 2 more than the one above Figure 4

Review 3 Answers

- 1) Add 2 to the previous term
- 2) term
- 3) 12; N+2
- 4) C. 35

5)	Н	1	2	3	4	5	 8		
	\$	4	8	12	16	20	 32	;	\$32

6) Answers may vary

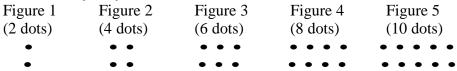


Figure 5 has <u>10</u> dots.

Long-Term Memory Review – Grade 6, Standard 2.0

Review 4 Answers

1) Multiply the previous term by 2

2) Sequence

3)	N	5	8	11	12	15
	#	10	16	22	24	30

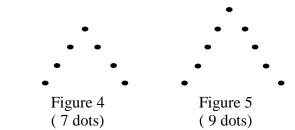
 $N \times 2$ or 2N

4) B. 25



; \$70

6)



; each figure has 2 more dots than the previous figure.

Quiz- Answers

1) Add 3 to the previous term

2) rule

3) N x 4 or 4N

4) A. 17

5) Η 2 4 5 8 1 3 3 12 \$ 6 9 15 24 ...

\$24

6)

• •

• • •

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; each figure number determines how many dots

Figure 5 are on each leg of the right triangle. The rule is $\frac{n^2 + n}{2}$