



Arithmetic & Geometric Sequences

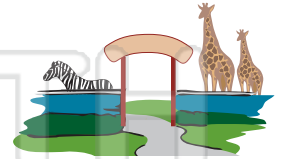
Math

Name _____ Class _____ Date _____

- 1 What is the **pattern of the sequence**, 1, 2.5, 4, 5.5, 7...?
Circle the answer letter.
- a. add 2.5 to every number
 - b. the sum of the previous two numbers
 - c. add 1.5 to every number
 - d. every other number is listed

- 6 A class takes a field trip to the zoo to watch a movie about animals. The movie times are 10:15, 11:00, 11:45 and 12:30. If the theater likes there to be 15 minutes between shows, how long is the movie?
Fill in the answer.

_____ minutes



- 2 What is the **pattern of the sequence**, 1, 4, 9, 16, 25, 36...?

- 7 The sequence, 0, 1, 1, 2, 4, 7, 13... is similar to the Fibonacci sequence. What are the next three numbers?

3

PREVIEW

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- 4 A sequence is given by the formula $a_n = 3n - 2$. What is the 10th term of the sequence? Complete the sequence.

7, 14, 28, _____, _____

- 5 What is the **next figure** in the sequence shown? Circle it.



- 10 The following sequence, 8, 16, 24... is used to represent the perimeter of an octagon with sides that equal 1, 2, 3.... What is the 12th number in the sequence?

89 94 96 104





Sequences - Answer Key

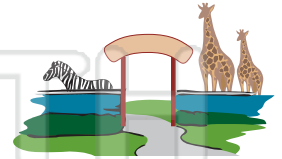
Math

Name _____ Class _____ Date _____

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- 6 A class takes a field trip to the zoo to watch a movie about animals. The movie times are 10:15, 11:00, 11:45 and 12:30. If the theater likes there to be 15 minutes between shows, how long is the movie? Fill in the answer.

30 minutes



- 2 What is the **pattern of the sequence**, 1, 4, 9, 16, 25, 36...?

- 7 The sequence, 0, 1, 1, 2, 4, 7, 13... is similar to the Fibonacci sequence. What are the next three numbers?

3

81

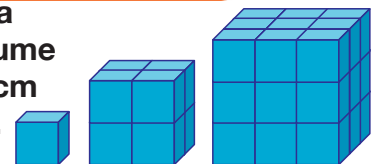
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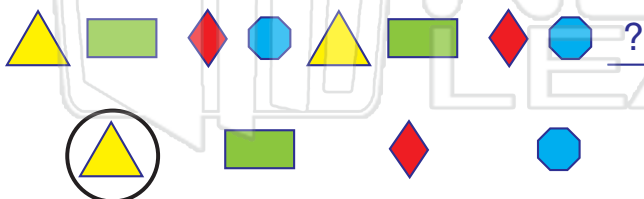
- 4 A sequence is given by the formula $2n^2 - 1$. What is the 10th term of the sequence? Complete the sequence.

7, 14, 28, 56, 112

1, 8, 27... represents a number cubed. The volume of a cube with sides 8 cm long = 8^3 or 512 cm^3 .



- 5 What is the **next figure** in the sequence shown? Circle it.



- 10 The following sequence, 8, 16, 24... is used to represent the perimeter of an octagon with sides that equal 1, 2, 3.... What is the 12th number in the sequence?

89

94

96

104

