



# Arithmetic & Geometric Sequences

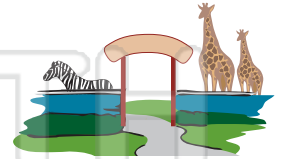
Math

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**

Please [Sign In](#) or [Sign Up](#) to download the printable version of this worksheet

- 4 A sequence is given by 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 12<sup>th</sup> number in the sequence?

89      94      96      104





# Sequences - Answer Key

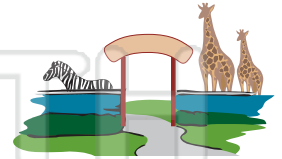
Math

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.

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

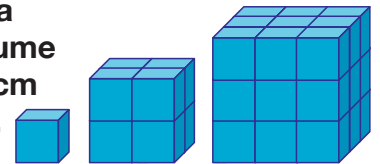
many  
ern

ne of

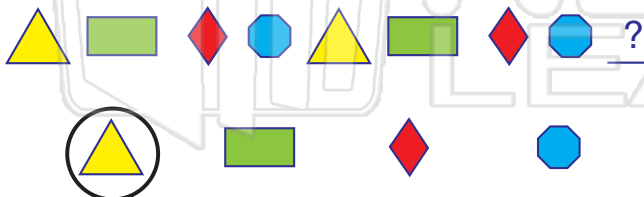
- 4 A sequence is given by the formula  $2n^2 + 3n - 1$ . What is the 10th term of the sequence? Complete the sequence.

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  $512 \text{ cm}^3$ .



- 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 12<sup>th</sup> number in the sequence?

89

94

96

104

