



**THIRD SPACE
LEARNING**

Sequences Worksheet

Algebra

Grades 4 to 5

Skill Questions

Name:

Date:

- 1 John starts counting from 5 and adds 3 each time to the previous number. What are the first five numbers in this sequence? What is the pattern?

Answer

- 2 The sequence 8, 11, ___, 17, 20 follows a pattern. Find the missing term and describe the pattern.

Answer

- 3 Sarah starts a sequence with 4 and adds 6 each time to the previous number. If the pattern continues, what is the 7th number in the sequence?

Answer

- 4 Determine whether the following sequence is arithmetic, geometric, or neither: 2, 5, 8, 11, 14, ...

Answer

- 5 Maria saves money every week. In the first week, she saves \$5. In the second week, she saves \$8. If this pattern continues, how much will she save in the 10th week?

Answer

Sequences Worksheet | Grades 4 to 5

- 6 Determine whether the following sequence is arithmetic, geometric, or neither: 3, 6, 12, 24, 48, ...

Answer

- 7 Find the 10th term of the arithmetic sequence: 7, 11, 15, 19, ...

Answer

- 8 A sequence starts with 2 and multiplies each term by 3. What are the first five numbers in this sequence? What is the pattern?

Answer

- 9 A runner runs 3 miles on the first day, 6 miles on the second day, 9 miles on the third day, and so on. If this pattern continues, how many miles will the runner run on the 10th day?

Answer

- 10 Complete the geometric sequence: 5, 10, ____, 40, 80, ... What is the missing term?

Answer

Applied Questions

- 11** Maya is building a pyramid out of blocks. She starts with a single block on the bottom row and adds two blocks to each subsequent row. If the pyramid is 6 rows tall, how many blocks does Maya need in total?

Answer

- 12** Tim has a garden where he plants flowers. He starts with 5 flower plants and adds 3 more plants each week. If Tim continues this pattern for 8 weeks, how many flower plants will he have in total?

Answer

- 13** Jason is stacking books on a shelf. He starts with 3 books on the bottom shelf and adds 2 more books to each subsequent shelf. If he continues this pattern for 5 shelves, how many books will he have stacked in total?

Answer

- 14** Sophie is saving money for a vacation. She starts by saving \$10 on the first day and plans to increase her savings by \$5 each day. How much money will Sophie have saved by the end of the 7th day?

Answer

- 15** A bacteria culture doubles in size every hour. If the initial population of bacteria is 100, how many bacteria will there be after 6 hours?

Answer

Answers

Question number	Question	Answers	Standard
1	John starts counting from 5 and adds 3 each time to the previous number. What are the first five numbers in this sequence? What is the pattern?	5, 8, 11, 14, 17 The pattern is add 3	4.OA.C.5
2	The sequence 8, 11, ____, 17, 20 follows a pattern. Find the missing term and describe the pattern.	14 The pattern is add 3	4.OA.C.5
3	Sarah starts a sequence with 4 and adds 6 each time to the previous number. If the pattern continues, what is the 7th number in the sequence?	The seventh number is 40	4.OA.C.5
4	Determine whether the following sequence is arithmetic, geometric, or neither: 2, 5, 8, 11, 14, ...	Arithmetic sequence	4.OA.C.5
5	Maria saves money every week. In the first week, she saves \$5. In the second week, she saves \$8. If this pattern continues, how much will she save in the 10th week?	In the 10th week, Maria will save \$32 The pattern is increasing by \$3 each week	4.OA.C.5
6	Determine whether the following sequence is arithmetic, geometric, or neither: 3, 6, 12, 24, 48, ...	Geometric sequence	5.OA.B.3
7	Find the 10th term of the arithmetic sequence: 7, 11, 15, 19, ...	The 10th term is 43.	5.OA.B.3

Sequences Worksheet | Grades 4 to 5 | Answers

Question number	Question	Answers	Standard
8	A sequence starts with 2 and multiplies each term by 3. What are the first five numbers in this sequence? What is the pattern?	<p>The first five numbers in the sequence are 2, 6, 18, 54, 162.</p> <p>The pattern is multiplying each term by 3.</p>	5.OA.B.3
9	A runner runs 3 miles on the first day, 6 miles on the second day, 9 miles on the third day, and so on. If this pattern continues, how many miles will the runner run on the 10th day?	On the 10th day, the runner will run 30 miles.	5.OA.B.3
10	Complete the geometric sequence: 5, 10, ____, 40, 80, ... What is the missing term?	The missing term is 20.	5.OA.B.3
11	Maya is building a pyramid out of blocks. She starts with a single block on the bottom row and adds two blocks to each subsequent row. If the pyramid is 6 rows tall, how many blocks does Maya need in total?	Maya needs 36 blocks in total.	4.OA.C.5
12	Tim has a garden where he plants flowers. He starts with 5 flower plants and adds 3 more plants each week. If Tim continues this pattern for 8 weeks, how many flower plants will he have in total?	Tim will have 26 flower plants in total after 8 weeks.	4.OA.C.5

Sequences Worksheet | Grades 4 to 5 | Answers




Question number	Question	Answers	Standard
13	Jason is stacking books on a shelf. He starts with 3 books on the bottom shelf and adds 2 more books to each subsequent shelf. If he continues this pattern for 5 shelves, how many books will he have stacked in total?	Jason will have 35 books stacked in total.	4.OA.C.5
14	Sophie is saving money for a vacation. She starts by saving \$10 on the first day and plans to increase her savings by \$5 each day. How much money will Sophie have saved by the end of the 7th day?	Sophie will have saved \$40 by the end of the 7th day.	5.OA.B.3
15	A bacteria culture doubles in size every hour. If the initial population of bacteria is 100, how many bacteria will there be after 6 hours?	There will be 6400 bacteria after 6 hours. Start (Hour 0) = 100 After 1 hour = 200 After 2 hours = 400 After 3 hours = 800 ... After 6 hours = 6400	5.OA.B.3

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