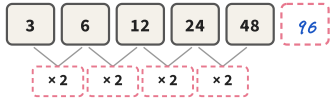


Types of Sequences

ANSWERS

1

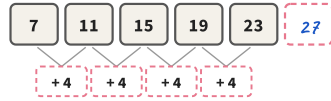
Write what happens between each term.
Tick the type. Find the next term.



- ☐ Linear add or subtract the same number
☒ Geometric multiply by the same number
☐ Fibonacci type add the two terms before
☐ Square numbers 1, 4, 9, 16, ...
☐ Triangular numbers 1, 3, 6, 10, ...

2

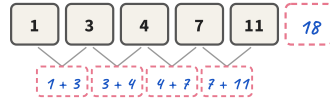
Write what happens between each term.
Tick the type. Find the next term.



- ☒ Linear add or subtract the same number
☐ Geometric multiply by the same number
☐ Fibonacci type add the two terms before
☐ Square numbers 1, 4, 9, 16, ...
☐ Triangular numbers 1, 3, 6, 10, ...

3

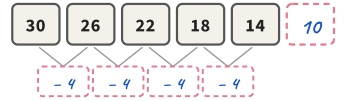
Write what happens between each term.
Tick the type. Find the next term.



- ☐ Linear add or subtract the same number
☐ Geometric multiply by the same number
☒ Fibonacci type add the two terms before
☐ Square numbers 1, 4, 9, 16, ...
☐ Triangular numbers 1, 3, 6, 10, ...

4

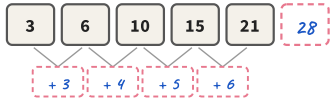
Write what happens between each term.
Tick the type. Find the next term.



- ☒ Linear add or subtract the same number
☐ Geometric multiply by the same number
☐ Fibonacci type add the two terms before
☐ Square numbers 1, 4, 9, 16, ...
☐ Triangular numbers 1, 3, 6, 10, ...

5

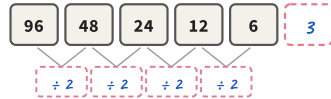
Write what happens between each term.
Tick the type. Find the next term.



- ☐ Linear add or subtract the same number
☐ Geometric multiply by the same number
☐ Fibonacci type add the two terms before
☐ Square numbers 1, 4, 9, 16, ...
☒ Triangular numbers 1, 3, 6, 10, ...

6

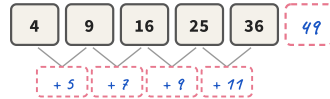
Write what happens between each term.
Tick the type. Find the next term.



- ☐ Linear
☒ Geometric multiply by the same number
☐ Fibonacci type add the two terms before
☐ Square numbers
☐ Triangular numbers

7

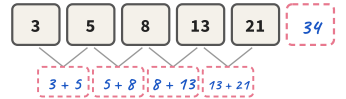
Write what happens between each term.
Tick the type. Find the next term.



- ☐ Linear
☐ Geometric
☐ Fibonacci type
☒ Square numbers
☐ Triangular numbers

8

Write what happens between each term.
Tick the type. Find the next term.



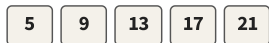
- ☐ Linear
☐ Geometric
☒ Fibonacci type
☐ Square numbers
☐ Triangular numbers

Types of Sequences further practice

ANSWERS

9

Describe the term to term rule.



$$9 - 5 = 4, 13 - 9 = 4, \dots$$

Answer Add 4

10

Describe the term to term rule.



$$50 - 43 = 7, 43 - 36 = 7, \dots$$

Answer Subtract 7

11

Describe the term to term rule.



$$2 \times 3 = 6, 6 \times 3 = 18, \dots$$

Answer Multiply by 3

12

Describe the term to term rule.



$$400 \div 2 = 200, 200 \div 2 = 100, \dots$$

Answer Divide by 2

13

Describe the term to term rule.



$$2 + 3 = 5, 3 + 5 = 8, 5 + 8 = 13$$

Answer Add the two terms before

14

Describe the term to term rule.

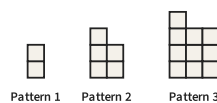


$$1.5 - 1.2 = 0.3, 1.2 - 0.9 = 0.3, \dots$$

Answer Subtract 0.3

15

How many tiles are in Pattern 6?
Write the rule for the number of tiles.



$$2, 5, 10: \text{one more than } 1, 4, 9$$

$$6 \times 6 + 1 = 37$$

Answer 37, square numbers + 1

16

In a Fibonacci type sequence the 1st term is 3 and the 4th term is 17.
Find the 2nd term.

$$\text{terms } 3, b, 3 + b, 3 + 2b$$

$$3 + 2b = 17, \text{ so } b = 7$$

Answer 7