

1

What comes next in the pattern?

2, 4, 8, 16, __?

My answer:

Working out space:

•
 •
 •
 •

■ Hint: Think about what happens to each number



2

Find the missing number:

3, 6, 9, __, 15

My answer:

Working out space:

•
 •
 •
 •

■ Hint: These are multiples of 3



3

What is the rule for this sequence?

1, 4, 9, 16, 25, ___?

My answer:

Working out space:

•
 •
 •
 •

■ Hint: Try squaring 1, 2, 3, 4, 5...



4

Complete the pattern:

100, 90, 80, __, 60

My answer:

Working out space:

•
 •
 •
 •

■ Hint: Count how much it decreases each time



5

What comes next?

1, 1, 2, 3, 5, 8, ___?

My answer:

Working out space:

•
 •
 •
 •

■ Hint: Add the two numbers before it



6

Find the missing number:

____, 14, 21, 28, 35

My answer:

Working out space:

•
 •
 •
 •

■ Hint: What is the gap between each number?



7

What comes next?

5, 10, 20, 40, ____?

My answer:

Working out space:

•
 •
 •
 •

■ Hint: Is it adding or multiplying?



8

Complete the pattern:

2, 5, 10, 17, 26, ___?

My answer:

Working out space:

•
 •
 •
 •

■ Hint: Look at the gaps: +3, +5, +7...



9

What is the 8th term?

4, 8, 12, 16, 20...

My answer:

Working out space:

.

■ Hint: Multiply the position by the common difference



10

Find the rule and next term:

81, 27, 9, 3, ___?

My answer:

Working out space:

•
 •
 •
 •

■ Hint: Try dividing each time



11

What comes next?

0, 1, 4, 9, 16, __?

My answer:

Working out space:

•
 •
 •
 •

■ Hint: These are square numbers starting from 0



12

Fill in the missing numbers:

5, 10, __, 20, __, 30

My answer:

Working out space:

•
 •
 •
 •

■ Hint: Count in fives



13

What is the pattern?

2, 6, 18, 54, ____?

My answer:

Working out space:

•
 •
 •
 •

■ Hint: What are you multiplying by each time?



14

Find the missing term:

____, 8, 11, 14, 17

My answer:

Working out space:

.

■ Hint: The gap between each number is the same



15

Complete this sequence:

1, 2, 4, 7, 11, __?

My answer:

Working out space:

•
 •
 •
 •

■ Hint: Look at the differences: +1, +2, +3...



16

What is the 10th term?

Sequence: 7, 14, 21, 28...

My answer:

Working out space:

•
 •
 •
 •

■ Hint: It is the 7 times table



17

Find the missing numbers:

64, 32, __, 8, __

My answer:

Working out space:

•
 •
 •
 •

■ Hint: Divide by 2 each time



18

What comes next?

3, 5, 8, 13, 21, ___?

My answer:

Working out space:

•
 •
 •
 •

■ Hint: Like Fibonacci — add the two before



19

Write the next two terms:

1000, 100, 10, __, __

My answer:

Working out space:

.

■ Hint: What are you dividing by each time?



20

Final challenge! Find the missing term:

4, 9, 16, ___, 36, 49

My answer:

Working out space:

•
 •
 •
 •

■ Hint: Square numbers! 2x2, 3x3, 4x4...



Answer Key — Number Patterns

For parent / teacher use only

Answers will vary — check working and reasoning, not just final answers.

Q1. 2, 4, 8, 16, __?

Q2. 3, 6, 9, __, 15

Q3. 1, 4, 9, 16, 25, __?

Q4. 100, 90, 80, __, 60

Q5. 1, 1, 2, 3, 5, 8, __?

Q6. __, 14, 21, 28, 35

Q7. 5, 10, 20, 40, __?

Q8. 2, 5, 10, 17, 26, __?

Q9. 4, 8, 12, 16, 20...

Q10. 81, 27, 9, 3, __?

Q11. 0, 1, 4, 9, 16, __?

Q12. 5, 10, __, 20, __, 30

Q13. 2, 6, 18, 54, __?

Q14. __, 8, 11, 14, 17

Q15. 1, 2, 4, 7, 11, __?

Q16. Sequence: 7, 14, 21, 28...

Q17. 64, 32, __, 8, __

Q18. 3, 5, 8, 13, 21, __?

Q19. 1000, 100, 10, __, __

Q20. 4, 9, 16, __, 36, 49