

# Number Theory Explorers

Number Theory · Answer Key · 20 Questions

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**1. Which of these numbers is the smallest prime number?**

- A) 1
- B) 2**
- C) 3
- D) 0

**2. What is the name for a number that ends in 0, 2, 4, 6, or 8?**

- A) Odd number
- B) Even number**
- C) Prime number
- D) Square number

**3. If you add two odd numbers together, what type of number is the result?**

- A) Odd
- B) Even**
- C) Prime
- D) Negative

**4. Which number is neither prime nor composite?**

- A) 0
- B) 1**
- C) 2
- D) 3

**5. A number that has exactly two factors, 1 and itself, is called what?**

- A) Even
- B) Composite
- C) Prime**
- D) Whole

**6. What is the result of multiplying any whole number by zero?**

- A) The number itself
- B) One
- C) Zero**
- D) Ten

7. Which of these is a square number?

- A) 3
- B) 9**
- C) 7
- D) 5

8. How many factors does the number 3 have?

- A) 1
- B) 2**
- C) 3
- D) 4

9. What is the next odd number after 9?

- A) 10
- B) 11**
- C) 12
- D) 13

10. Which of these is a multiple of 5?

- A) 12
- B) 16
- C) 25**
- D) 28

11. What do we call numbers that can be divided by 2 without a remainder?

- A) Even numbers**
- B) Odd numbers
- C) Prime numbers
- D) Factors

12. Which number is the only even prime number?

- A) 4
- B) 6
- C) 2**
- D) 8

13. What is the smallest positive integer?

- A) 0
- B) 1**
- C) 2
- D) 10

14. Which of these numbers is a factor of 10?

- A) 3
- B) 4
- C) 5**
- D) 6

15. An odd number added to an even number always results in what?

- A) Odd number**
- B) Even number
- C) Zero
- D) Prime number

16. What is the sum of the first three prime numbers ( $2 + 3 + 5$ )?

- A) 9
- B) 10**
- C) 11
- D) 12

17. How many sides does a shape have if the number of sides is a square number greater than 1?

- A) 3
- B) 4**
- C) 5
- D) 6

18. Which of these is a composite number?

- A) 2
- B) 3
- C) 4**
- D) 7

19. What is the first odd prime number?

- A) 1
- B) 2
- C) 3**
- D) 5

20. A number that has more than two factors is called what?

- A) Prime
- B) Composite**
- C) Even
- D) Odd