# **Introduction to Prime Time**

#### A. Choose the Correct Answer:

1.	. Which of the following is a prime number?		
	a) 4	b) 6	
	c) 9	d) 7	
2.	. Which number has exactly two factors?		
	a) 1	b) 11	
	c) 8	d) 0	
3.	3. The only even prime number is:		
	a) 2	b) 4	
	c) 6	d) 8	
4.	Which of the following is not a prime number		

- a) 19 b) 23 c) 33 d) 29
- 5. What is the smallest prime number greater than 10?

a) 11	b) 13
c) 12	d) 15

## **B.** Write the Missing Terms to Complete the Sentences:

- 1. A prime number has exactly \_\_\_\_\_ distinct factors.
- 2. The number 1 is \_\_\_\_\_ considered a prime number.
- 3. The smallest prime number is \_\_\_\_\_.
- 4. Numbers that are not prime are called \_\_\_\_\_ numbers.
- 5. A number divisible by more than two numbers is called a \_\_\_\_\_ number.

#### C. Figure out the answers to these questions:

- 1. List all prime numbers between 10 and 30.
- 2. Circle the prime numbers in the list below:
- 2, 3, 5, 6, 8, 9, 11, 15, 17, 20
- 3. Draw a number grid from 1 to 50 and highlight all prime numbers.

(Students can use colors or symbols to mark prime numbers)

4. Make a table with two columns: one for Prime Numbers and the other for Composite Numbers (up to 30).

- 5. Find the sum of the first five prime numbers.
- 6. Write the first 10 prime numbers in ascending order.
- 7. Which is the only even prime number? Explain why it's the only one.
- 8. Write three real-life situations where understanding prime numbers might be useful.

# D. Mark each sentence with a True ( $\checkmark$ ) or False (X):

- 1. Every even number is a prime number.
- 2. 1 is not a prime number.
- 3. All prime numbers are odd numbers.
- 4. Prime numbers have only two factors: 1 and itself.
- 5. 0 is a prime number.

### E. Challenge yourself with these questions:

- 1. If a number has exactly two factors, can it be a composite number? Why or why not?
- 2. Create a poem, rhyme, or rap to remember the first ten prime numbers.
- 3. Make a poster or chart showing the difference between prime and composite numbers.
- 4. Think of a secret code using prime numbers. Write a message where each word's length is a prime number.
- 5. Write any three consecutive numbers. Check if any of them are prime. Repeat this for five sets and write your observations.