

MATHEMATICS

Prime and Composite Numbers

A **prime number** is a number that has only two factors, itself and one.

Example: Factors of 5 = (1, 5) The number 5 is prime because it only has two factors.

A **composite number** is a number that has more than two factors.

E.g.: Factors of 6 = (1, 2, 3, 6) The number 6 is not prime it is a composite number because it has more than 2 factors.

Complete this exercise.

- 1) List the first 3 prime numbers.
- 2) List the prime numbers which are less than 10.
- 3) The prime numbers which come between 5 and 15.
- 4) The prime numbers which are factors of 15.
- 5) The prime numbers greater than 20 but less than 30.

Write the next two prime numbers in each sequence.

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|----|----|----|----|-------|-------|
| 6) | 2 | 3 | 5 | _____ | _____ |
| 7) | 13 | 17 | 19 | _____ | _____ |
| 8) | 31 | 37 | 41 | _____ | _____ |
- 9) Which of these numbers (2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12) are prime numbers?
- 10) Which of these numbers (21, 23, 25, 27, 29) are NOT prime numbers?

State whether the following numbers are prime or composite.

Number	Prime / Composite
16	
11	
37	
45	
61	
48	
29	
1	