

Name: _____ Date: _____

Mathematics

Special Number Patterns: Even, Prime & Odd Numbers

Even and Odd Numbers

Even Numbers end in

0 2 4
6 8

Examples: 4, 56, 730

Odd Numbers end in

1 3
5 7 9

Examples: 9, 83, 641

Prime Numbers

A number which only has two factors - itself and 1.

The first ten prime numbers are:
2 3 5 7 11 13 17 19 23 29

Example:
What is the next prime number after 11?
Check 12 - The factors of 12 are: 1 x 12, 2 x 6, 3 x 4, so 12 is not prime.
Check 13 - The only factors of 13 are 1 x 13, so 13 is a prime number

Select true or false for each statement.

- | | | |
|---|------|-------|
| 1. Even numbers end in 1, 3, 5, 7, and 9. | TRUE | FALSE |
| 2. 863 is an even number. | TRUE | FALSE |
| 3. Prime numbers have only 2 factors. | TRUE | FALSE |
| 4. Composite numbers have only 2 factors. | TRUE | FALSE |
| 5. 997 is an odd number. | TRUE | FALSE |

Write even or odd to tell about the number.

- | | |
|-------------------|-------------------|
| 6. 41 = _____ | 9. 88 = _____ |
| 7. 372 = _____ | 10. 17 = _____ |
| 8. 6, 133 = _____ | 11. 1,000 = _____ |

List all the prime numbers ***between*** 50 and 60. (use commas to separate)

9. _____

Complete the pattern.

10. 20, 22, 24, _____, _____

11. 16, 63, 65, _____, _____

12. Use the numbers below to complete the Venn diagram.

17	25	9	7	2
	11	136	21	40

