Name:_____ Class:_____

# Prime vs. Composite Numbers

**Learning Target:** I can determine the GCF of 2 or more whole numbers.

**Learning Objective:** I can distinguish between prime and composite numbers.

**(1) <u>Prime Number</u>:**

A number larger than 1, that can only be evenly _____ by the numbers 1 and itself

*Now, using our math vocabulary:*

A number _____ than 1, whose only _____ are 1 and itself.

<u>Examples:</u>

- 37 is a prime number.  The only factors of 37 are: 1, 37

- 11 is a prime number.  The only factors of 11 are: 1, 11

- _____

**(2) <u>Composite Number</u>:**

A number _____ than 1 that can be divided by numbers other than

_____ and _____

*Now, using our math vocabulary:*

A number _____ than 1 who has more than 1 _____

Examples:

- 63 is a composite number.  The factors of 63 are: 1, 3, 7, 9, 21, 63

- 40 is a composite number. The factors of 40 are: 1, 2, 5, 8, 20, 40

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The Prime Numbers up to 100 are:

| 2 | 3 | 5 | 7 | 11 | 13 | 17 | 19 | 23 | 29 | 31 | 37 | 41 | 43 | 47 | 53 | 59 | 61 | 67 | 71 | 73 | 79 | 83 | 89 | 97 |
|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|

| Prime | Composite |
|---|---|
| have only 2 factors: (1 and itself) | have more than 2 factors |
| 2,3,5,7,11 | 4,6,8,9,12,14 |

**0 and 1 are neither**

# Prime vs. Composite Numbers

**Learning Target:** I can determine the GCF of 2 or more whole numbers.

**Learning Objective**: I can distinguish between prime and composite numbers.

**(1) Prime Number:**

A number larger than 1, that can only be evenly *divided* by the numbers 1 and itself

*Now, using our math vocabulary:*

A number *greater* than 1, whose only *factors* are 1 and itself.

Examples:

- 37 is a prime number.  The only factors of 37 are: 1, 37

- 11 is a prime number.  The only factors of 11 are: 1, 11

- _____

**(2) Composite Number:**

A number *larger* than 1 that can be divided by numbers other than

*1* and *itself*

*Now, using our math vocabulary:*

A number *greater* than 1 who has more than 1 *factor pair*

Examples:

- 63 is a composite number.  The factors of 63 are: 1, 3, 7, 9, 21, 63

- 40 is a composite number. The factors of 40 are: 1, 2, 5, 8, 20, 40

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The Prime Numbers up to 100 are:

| 2 | 3 | 5 | 7 | 11 | 13 | 17 | 19 | 23 | 29 | 31 | 37 | 41 | 43 | 47 | 53 | 59 | 61 | 67 | 71 | 73 | 79 | 83 | 89 | 97 |
|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|

**Prime** have only 2 factors: (1 and itself) 2,3,5,7,11

**Composite** have more than 2 factors 4,6,8,9,12,14

0 and 1 are neither