Factors, Multiples, Prime, Square Quiz

Name and Number: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Fill in the chart with factors and multiples for each of the following numbers:

|  |  |  |
| --- | --- | --- |
| Number | List ALL factors | List the first 5 multiples |
| 20 |  |  |
| 18 |  |  |
| 12 |  |  |
| 7 |  |  |
| 16 |  |  |

In your own words, what is the difference between a factor and a multiple?

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Choose 3 square numbers. Draw an array to show that the number is square, and write the factor pair.

|  |  |  |
| --- | --- | --- |
| Square Number | Array that shows it is square | All Factor Pairs  (T-Chart) |
|  |  |  |
|  |  |  |
|  |  |  |

What is a prime number?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Choose three prime numbers. Draw the array that shows that it is prime, and write the factor pair.

|  |  |  |
| --- | --- | --- |
| Prime Number | Array that shows it is prime | Factor Pair |
|  |  |  |
|  |  |  |
|  |  |  |

Number Puzzle: Solve the following number puzzle. Show all of your work and write your final answer on the line.

* My number is prime.
* My number is a factor of 42.
* My number is less than 10.
* My number is a factor of 70.

Mystery Number: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_