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Special Number Project
Mrs. LaDuke

Special Number: 55

Essential Vocabulary – Mathematical Properties

The **factors** of 55 are 5, 11 – The fact that the two factors of 55 are **PRIME** makes 55 a semi-prime number

Divisors of 55 are 1, 5, 11 and 55

55 is a **deficient number** because its **proper factors** add up to less than 55: $1+5+11 = 17$ and $17 < 55$

55 is an **odd number** because it is not divisible by 2

55 is a **composite** number because it has factors other than 1 and itself

55 is the sum of the first 5 **Square Numbers** $= 1 + 4 + 9 + 16 + 25 = 55$

[http://en.wikipedia.org/wiki/55_\(number\)](http://en.wikipedia.org/wiki/55_(number))

55 is a **triangular number** - that can be represented in the form of a triangular grid of points where the first row contains a single point and each row after that contains one more point than the previous one

```
      1
     2 3
    4 5 6
   7 8 9 10
  11 12 13 14 15
 16 17 18 19 20 21
 22 23 24 25 26 27 28
 29 30 31 32 33 34 35 36
 37 38 39 40 41 42 43 44 45
 46 47 48 49 50 51 52 53 54 55
```

55 is the largest triangular number in the Fibonacci sequence: $1+2+3+4+5+6+7+8+9+10 = 55$

http://www.archimedes-lab.org/numbers/Num24_69.html

Real World Connections

55Hz is the standard frequency of the note A₁ (musical note)

<http://www.wolframalpha.com/input/?i=55>

Messier 55 (also known as M55 or NGC 6809) is a globular cluster in the constellation Sagittarius.

55 is the Restaurant slang for root beer

55 was the highest speed limit allowed in the United States between 1974 and 1986 because of the National Maximum Speed Law

[http://en.wikipedia.org/wiki/55_\(number\)](http://en.wikipedia.org/wiki/55_(number))