Steve's Maximum Force

1 water bucket is at maximum 1857954944 blocks

i used this formula to calculate it:

$$1 + 4nx + 2nx((nx) - 1)$$

the thing above calculates number of blocks in every layer (n) of a x-block pyramid,

and the code below adds it.

and this code:

```
x = int(input("side of a block"))
rng = int(input()) # range, here 384
n = 1
s = 0
while n <= rng:
s += (4*x*n) + 1 + (2*n*x*((n*x)-1))
n+=1
print(s)
```

1 block is 1 cubic metre in volume, which is approx 1000 litres
water in litres: 1857954944 * 1000 = 1 857 954 944 000

****which is about 1.857 trillion litres****

it is a widely known fact that density of water is 997 kg/1000 litres
based on this, the mass of the water obtained is 1 852 381 079 168 000 kg
****which is around 1.852 quadrillion kg****

1 block of water is the same as 1 block of ice
1 block of ice = 1852381079168000 kg
9 block of ice make 1 packed ice
9 blocks of packed ice make 1 blue ice
1 blue ice = 81 *1 block of ice*
1 blue ice = 81 1852381079168000 kg
1 blue ice = 150 042 867 412 608 000 kg

****which is around 150 quadrillion kg****

1 shulker box holds 27*64 blue ice*
*steve's inventory holds 37*27*64 blue ice incl offhand

steve's inventory holds 9 593 140 770 892 505 088 000 kilograms
which is ****9 sextillion 593 quintillion 140 quadrillion 770 trillion 892 billion 505 million 88 thousand kilograms****

****that's like 1.5% of mars, or 0.16% of the earth or like 73.7% of pluto****

since all of these are basically Items, but are in a player's inventory, this is where our idea gets contradicting

F = mg
where Weight is 9 593 140 770 892 505 088 000 kilograms

and acceleration due to gravity is 32 m/s (player's)
note: steve is balancing the weight of the Items putting pressure in his inventory

F = m * 32
F = 3,06,98,05,04,66,85,60,16,28,16,000 Newtons
****which is around 3.06 septillion Newtons****

below are some stats i found out (wrt earth's acceleration)

- It is about 100 times the force of a supernova explosion.
- It is about 10,000 times the force of a hurricane.
- It is about 1,000,000,000,000 times the force of a nuclear bomb.
- To give you another example, imagine a force that could accelerate a 1,000 kg car from 0 to 60 mph in 0.0001 seconds. This force would be approximately 1.67 x 10^9 newtons. It would take about 1.8 million such forces to equal 3.06 septillion newtons

****and that's in steve's pockets.****

steve is truly powerful.

tl;dr: y-axis was updated in the 320 to -64 update, i dont know what it was
and therefore more water per water block.
more water block = more power to steve
someone suggested to use blue ice cuz funny

and here we are.

****also short answer: 3.06 septillion Newtons is what Steve's limit is. full stop.****