Minecraft plans

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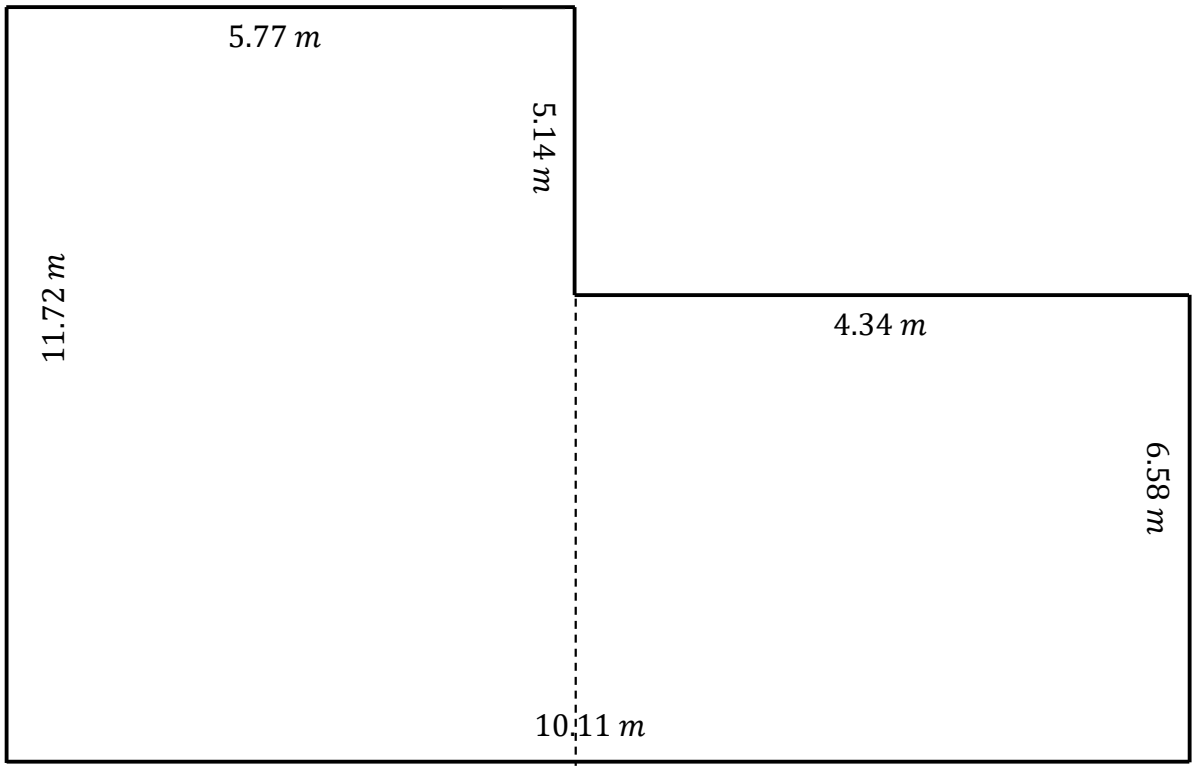
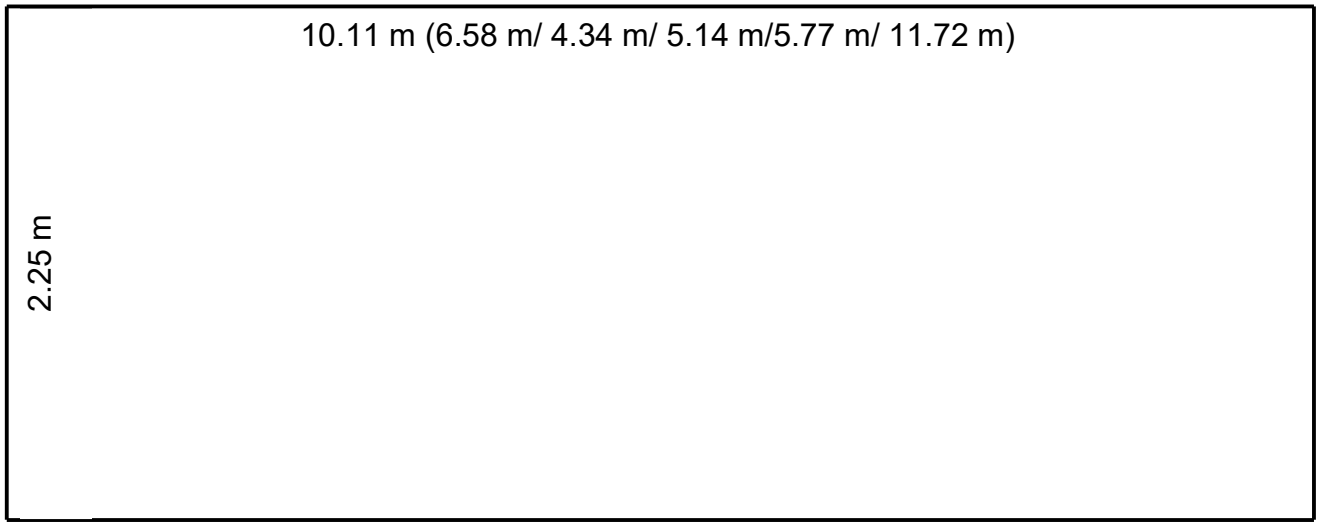
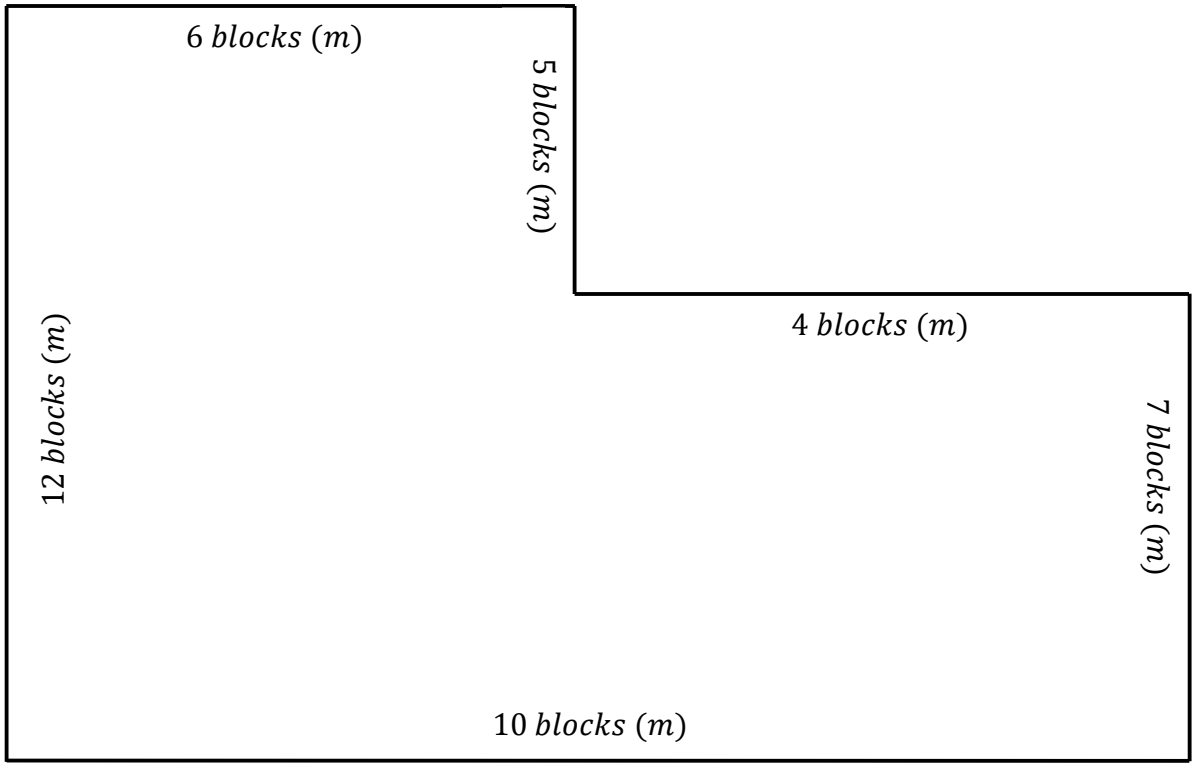
Diagrams:

Actual Room:





Minecraft Room:



12 blocks (m) (6 blocks (m)/ 5 blocks (m)/ 4 blocks (m)/ 7 blocks (m)/ 10 blocks (m))

3 blocks (m)

Scale:

Minecraft Scale:

$$Scale\ Statement\ (SS) = orginal{:}\ model$$

$$SS = 10.11\ m{:}\ 10\ blocks$$

$$SS = 2.022\ m{:}\ 2\ blocks$$

$$SS = 1.011\ m{:}\ 1\ block$$

$$Scale\ Factor\ (SF) = \frac{orginal}{model}$$

$$SF = \frac{10.11\ m}{10\ blocks}$$

$$SF = \frac{2.022\ m}{2\ blocks}$$

$$SF = \frac{1\ block}{1.011\ m}$$

$$SF = 1$$

One block is 1 m.

Surface Area

Actual Room:

Floor/Roof:

$$11.72(5.77) = 67.62\ m^2$$

$$3.24(6.58) = 21.32\ m^2$$

$$67.62\ m^2 + 21.32\ m^2 = 88.94\ m^2$$

Walls:

$$2.25(10.11) = 22.75\ m^2$$

$$2.25(6.58) = 14.81\ m^2$$

$$2.25(4.34) = 9.77\ m^2$$

$$2.25(5.14) = 11.57\ m^2$$

$$2.25(5.77) = 12.98\ m^2$$

$$2.25(11.72) = 26.37\ m^2$$

$$22.75\ m^2 + 14.81\ m^2 + 9.77\ m^2 + 11.57\ m^2 + 12.98\ m^2 + 26.37^2 = 98.25\ m^2$$

Total Surface Area:

$$2(88.94\ m^2) + 98.25\ m^2 = 276.13\ m^2$$

Minecraft Room:

Floor/Roof:

$$6(12) = 72\ blocks^2$$

$$4(7) = 28\ blocks^2$$

$$72\ blocks^2 + 28\ blocks^2 = 100\ blocks^2$$

Walls:

$$3(12) = 36\ blocks^2$$

$$3(6) = 18\ blocks^2$$

$$3(5) = 15\ blocks^2$$

$$3(4) = 12\ blocks^2$$

$$3(7) = 21\ blocks^2$$

$$3(10) = 30\ blocks^2$$

$$36\ blocks^2 + 18\ blocks^2 + 15\ blocks^2 + 12\ blocks^2 + 21\ blocks^2 + 30\ blocks^2 = 132\ blocks^2$$

Total Surface Area:

$$2(100\ blocks^2) + 132\ blocks^2 = 332\ blocks^2$$

Volume

Actual Room:

$$2.25\ m\ (11.72\ m)(5.77\ m) = 152.15\ m^3$$

$$2.25\ m(6.58\ m)(4.34\ m) = 64.25\ m^3$$

$$152.15\ m^3 + 64.25\ m^3 = 216.4\ m^3$$

Minecraft Room:

$$3(12)(6) = 216\ blocks^3$$

$$3(4)(7) = 84\ blocks^3$$

$$216\ blocks^3 + 84\ blocks^3 = 300\ blocks^3$$

Cost:

Flooring:

At, www.lowes.ca, AHF Commercial Vinyl Floor Tile - 12-in x 12-in - Speckled White

Each VFT is $0.09\ m^2$

$$\frac{100\ m^2}{0.09\ m^2} = 1{,}111.11 \approx 1{,}112$$

For one VFT: $\$125.55$ (not including taxes)

$$\$125.55 \times 1{,}112 = \$139{,}611.60$$

Roof:

Tiles:

Each Carton has a squared meter of $5.95\ m^2$

$$\frac{100\ m^2}{5.95\ m^2} = 16.81\ carton \approx 17\ cartons$$

At, www.lowes.ca, for a carton of roofing: $\$79.99$ (not including taxes)

$$\$79.99 \times 17 = \$1{,}359.83$$

Lights:

There are 8 lights in the Minecraft room.

At, homedepot.ca, **BOOST LIGHTING** 4 ft. LED Shop Light 48W 4000K Warm Daylight 5500 Lumens Heavy Duty Linkable is $\$69.99$ (not including taxes)

$$8 \times \$69.99 = \$559.92$$

Walls (3 m):

4 blocks (m) wall:

The door is $2\ m\ \times 1\ m = 2m^2$

$$4(3) - 2(1) = 10\ m^2$$

10 blocks (m) wall:

The door is $2\ m\ \times 1\ m = 2m^2$

$$10(3) - 2(1) = 28\ m^2$$

5 blocks (m) wall:

$$5 \times 3 = 15\ m^2$$

7 blocks (m) wall:

$$7 \times 3 = 21\ m^2$$

6 blocks (m) wall:
We have *2* $2 \times 2 = 4\ m^2$ glass section on this wall.

$3(6) - 2(4) = 18 - 8 = 10\ m^2$ wall

12 blocks (m) wall:
We have 1 $2 \times 2 = 4\ \mathrm{m}^2$, 3 $1 \times 2 = 2\mathrm{m}^2$ glass sections on this wall.

$3(12) - (4 + 3(2)) = 36 - 10 = 26\ \mathrm{m}^2$ wall

Glass:

$$3(4\ m^2) + 3(2\ m^2) = 12m^2 + 6m^2 = 18\ m^2$$

At, homedepot.ca, Optix Clear Acrylic Sheet is $\$33.97$ (not including taxes)

$$18\ in\ x\ 24\ in = 432\ in$$

$$\frac{432}{x} = \frac{1}{0.0254}$$

$$0.2787m^2$$

$$\frac{18\ m^2}{0.2787\ m^2} = 64.6\ sheets \approx 65\ sheets$$

$$65 \times \$33.97 = \$2{,}208.05$$

Doors:
At, homedepot.ca, **Masonite** 32-inch x 80-inch Primed 2 Panel Hollow Core Smooth Interior Door Slab is $\$142.00\ each$ (not including taxes)

$$2 \times \$142.00 = \$284.00$$

Walls:

$$10\ m^2 + 28\ m^2 + 15\ m^2 + 21\ m^2 + 10\ m^2 + 26\ m^2 = 110\ m^2$$

At, homedepot.ca, **CGC Sheetrock** 1/2 in. x 4 ft. x 8 ft. UltraLight Drywall Panel is $\$17.94$ each (not including taxes) and a 10% discount if you buy 50 or more.

$$4(8) = 32\ ft^2$$

$$32\ ft^2 \left(\frac{1ft}{0.3048^2\ m}\right) = 344\ .45\ m^2$$

$$\frac{344.45\ m^2}{110\ m^2} = 3.131\ panels \approx 4\ panels$$

$$\$17.94 \times 4 = \$71.76$$

Tables, Chairs, Bookshelf, and a Standing Desk:

11 tables and 20 chairs:

At, www.tradewest.ca, the tables are $199.00 and the chairs are $82.99 (Not including taxes)

$$\$199.00 \times 11 = \$2{,}189.00$$

10 tables have 2 chairs.

20 chairs

$$\$82.99 \times 20 = \$1{,}659.80$$

1 bookshelf:

At, www.tradewest.ca, the bookshelves are $529.00 (Not including taxes)

$$\$529.00 \times 1 = \$529.00$$

1 standing desk:

At, www.tradewest.ca, the standing desks are $269.00 (Not including taxes)

$$\$269.00 \times 1 = \$269.00$$

Total Cost:

$$\$139{,}611.60 + \$1{,}359.83 + \$559.92 + \$2{,}208.05 + \$284.00 + \$71.76 +$$

$$\$2{,}198.00 + \$1{,}659.00 + \$529.00 + \$269.00 = \$148{,}750.16$$

So, the total cost is $148,750.16

Loan:

So, I need a loan of $150,000.00.

If I pay $10,000.00 each month how long, it will take me to repay the loan if it has an interest rate of 3.00%. If I paid $100,000.00, in twenty-two months so far how many more month will it take me to repay the loan?

$$\$150{,}000.00 - \$100{,}000.00 = \$50{,}000.00$$

$$I = Prt$$

$$\$50{,}000.00 = (\$150{,}000)(0.03)t$$

$$\$50{,}000 = \$4{,}500t$$

$$\frac{\$50{,}000.00}{\$4{,}500.00} = \frac{\$4{,}500.00}{\$4{,}500.00}t$$

$$11.11 = t$$

$$t \approx 12\ months.$$

In total it took me 44 months to repay the loan. It costed $440,000 to create this room.