



For the uninitiated

- You have a town
- You can upgrade that town's resources with gold or elixir
- You can mine gold or elixir
- Or you can steal it by attacking others



Upgrades & Gold

- You can upgrade resources like walls with gold.
- Gold can be found in two main ways
 - You can mine it
 - You can buy it for real cash with gems



The evolution of a town

Write down the first question that springs to mind

bob
34 998

Ouvrier : **0/2** +

Bouclier : **AUCUN** +

Maximum : 1 501 000
599 740

949 III

Maximum : 601 000
179 467



+ **27**



Attaquer!



Magasin

Dan
52 493

Builder:
1/3 +

Shield:
None +

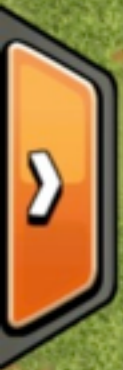
Max: 4 001 000
680 178

1750

Max: 4 001 000
683 300



+ 25



Attack!



Shop

45 44

Builder: 2/4 +

Shield: None +

Max: 2 001 000 293 143

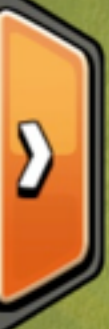
1189 II

Max: 751 000 62 877



Max: 10 000 94

+ 0



2d 19h

2d 11h

1d 19h

13s

47s

Create

Killer Minions

Train

Train

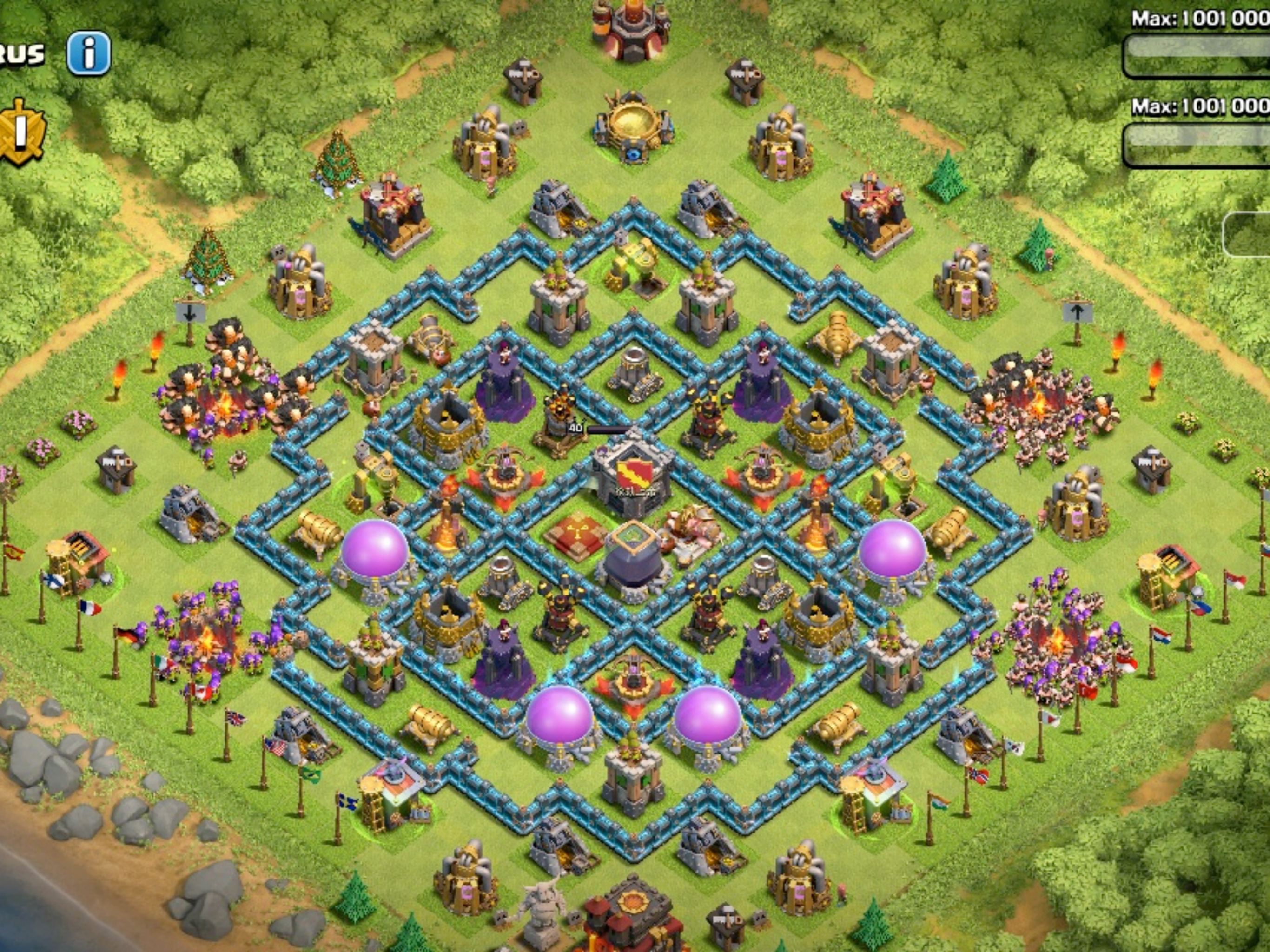
SHOP

RUS



Max: 1 001 000

Max: 1 001 000



Talk to your neighbour

Same question? Which is more interesting? Maybe you have a new question?



Level 1



Level 2



Level 3



Level 4



Level 5



Level 6



Level 7



Level 8



Level 9



Level 10



Level 11

What do you estimate it costs in real money to upgrade all your walls to Level 11?

What do we need to know
to find out the real
answer?

Your challenge

Work in groups to find the answer
The information sheets might help

Extension:

How long would it take without gems?

One solution

Step 1

Find out how much gold needed in total to build all the walls

Step 2

Find out how many gems needed to buy all that gold

Step 3

Find out how many gem packs needed to buy those gems

Step 4

Find out how much those gem packs would cost

Step 1: How much gold?

- 250 walls in total
- How much does it cost to fully upgrade one wall?
 - Level 1 (**200**) + Level 2 (**1,200**) + Level 3 (**6,200**) + ..
 - Full upgrade = **8,821,200** gold
- Cost to upgrade 250 walls = $250 \times 8,821,200$

2,205,300,000 gold

to get all walls to Level 11

Step 2: How many gems?

- Each top level storage resource can hold 2 million in gold
- We need **2,205,300,000** ÷ **2,000,000** storages
 - i.e. **1102.65** storages
- Each of these storages costs **615 gems** a fill
- So we need **1102.65** x **615 gems** in total

678,129.75 gems

needed to get enough gold for all walls to be Level 11

Step 3: How many packs?

- We need **678,129.75 gems**
- The most gems we can buy in a pack is 14,000
- So we need **$678,129.75 \div 14,000$** packs

48.43 gem packs

need to be bought to get all walls to Level 11

Step 4: How much cash?

- We need to buy 48.43 packs
- At £69.99 a pack
- So we need to spend:
 - $48.43 \times £69.99$

Total cost: £3,390.16

needs to be spent to get all walls to Level 11

How does that compare
to our estimates?