

What to Mine?

Exercise

In this exercise, you will learn how to choose the **optimal cryptocurrency to mine**. There are many coins in the world of cryptocurrencies but which ones are the most profitable for your hardware? We can find out on this website <https://whattomine.com>.

1. Visit “Whattomine”

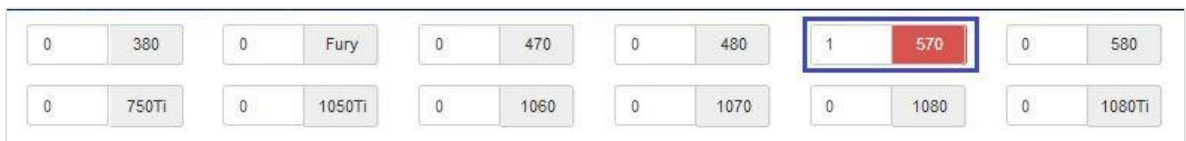
1. Go to the website: <https://whattomine.com>.

In first section you can choose your hardware. Here are the most popular mining GPUs and ASICs.



WHAT TO MINE		GPU	ASIC	Coins <small>New</small>	ETH+ ▾	ETC+ ▾	EXP+ ▾	JSC					
Main <small>✕</small> Add new dataset													
0	280x	0	380	0	Fury	0	470	0	480	0	570	0	580
0	Vega64	0	750Ti	0	1050Ti	0	1060	0	1070	0	1080	0	1080Ti

2. Let's choose one **AMD Radeon RX 570** card.



0	380	0	Fury	0	470	0	480	1	570	0	580
0	750Ti	0	1050Ti	0	1060	0	1070	0	1080	0	1080Ti

3. Below are hashing algorithms with “**Hash rate**”, “**Power**” consumption and “**Daily cost**”. Here you can see the **reference** values for your hardware. The site provides default values but you can enter your own parameters.

Ethash	Groestl	X11Gost	CryptoNight	Equihash	Lyra2REv2	NeoScript	LBRY
Hash rate 27.9 Mh/s	Hash rate 15.5 Mh/s	Hash rate 5.6 Mh/s	Hash rate 700.0 h/s	Hash rate 260.0 h/s	Hash rate 5500.0 kh/s	Hash rate 630.0 kh/s	Hash rate 115.0
Power 120.0 W	Power 110.0 W	Power 110.0 W	Power 110.0 W	Power 110.0 W	Power 110.0 W	Power 140.0 W	Power 115.0
Daily cost \$0.20	Daily cost \$0.18	Daily cost \$0.18	Daily cost \$0.18	Daily cost \$0.18	Daily cost \$0.18	Daily cost \$0.24	Daily cost \$0.19

Blake (2b)	Blake (14r)	Pascal	Skunkhash
Hash rate 840.0 Mh/s	Hash rate 1140.0 Mh/s	Hash rate 580.0 Mh/s	Hash rate 16.3 Mh/s
Power 115.0 W	Power 115.0 W	Power 135.0 W	Power 110.0 W
Daily cost \$0.19	Daily cost \$0.19	Daily cost \$0.23	Daily cost \$0.18

Cost: 0.07 \$/kWh

Sort by: Profitability 24h

Volume filter: Any volume

Difficulty for revenue: Average last 24h

Selected exchanges: Abucoins x Bitfinex x Bittrex x Bleutrade x Cryptopia x HitBTC x Poloniex x YoBit x

Calculate Defaults

Using below table, you can check how profitable it is to mine selected altcoins in comparison to ethereum. Please note that calculation based on mean values, therefore your final results may vary. For best results fill all fields with your hash rate and power consumption. Groestl hash rate, not Myriad-Groestl. Default values are adapted for three 480 cards.

4. In the “**Cost**” field you can enter the price that you pay for electricity.

Blake (2b)	Blake (14r)	Pascal	Skunkhash
Hash rate 840.0 Mh/s	Hash rate 1140.0 Mh/s	Hash rate 580.0 Mh/s	Hash rate 16.3 Mh/s
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Cost: 0.07 \$/kWh

Sort by: Profitability 24h

Volume filter: Any volume

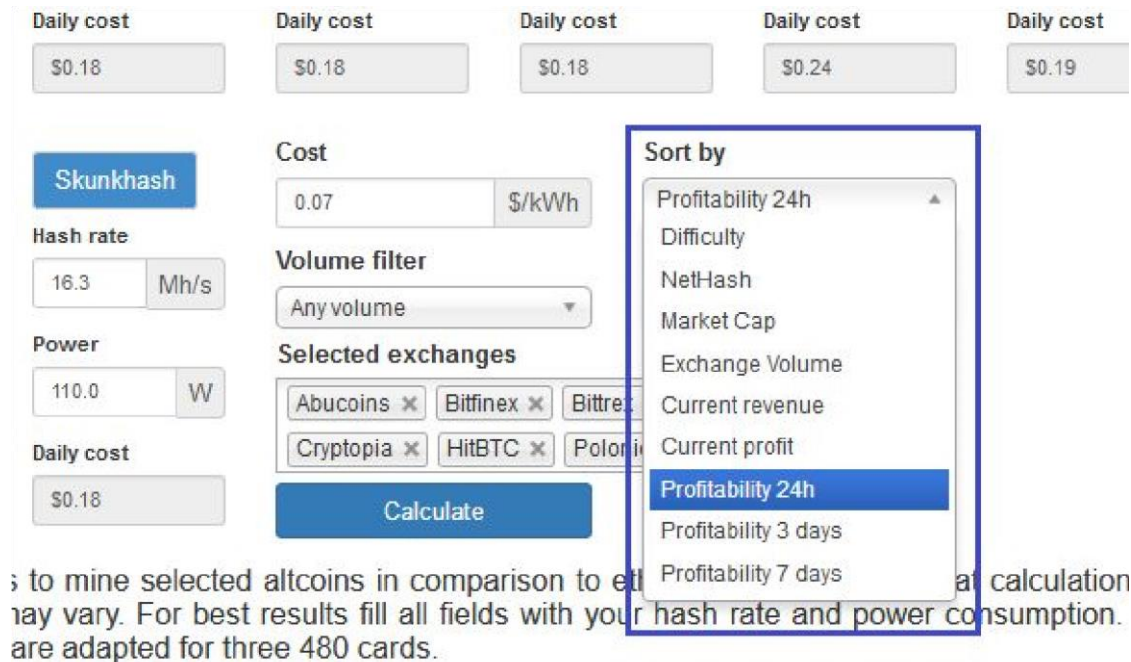
Difficulty for revenue: Average last 24h

Selected exchanges: Abucoins x Bitfinex x Bittrex x Bleutrade x Cryptopia x HitBTC x Poloniex x YoBit x

Calculate Defaults

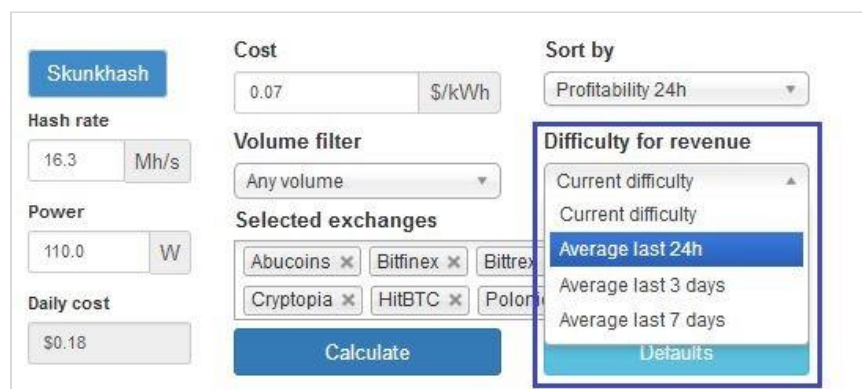
5. You can **change the sorting criteria** from the dropdown list “**Sort by**”. This is important in choosing the right options.

For example, if you use profitability for the last 24h, this will show the most **recent** currencies but while you mine the coins, the leadership may have already changed. The longest periods like the last 3 or 7 days give you a more **stable** picture of mining situation.



to mine selected altcoins in comparison to electricity cost. The calculation may vary. For best results fill all fields with your hash rate and power consumption. are adapted for three 480 cards.

6. With same steps, you can choose the **difficulty for revenue calculations**. The statistics become more stable as you select longer periods.



- When you are ready, click on the **“Calculate”** button.

Cost

0.07

\$/kWh

Sort by

Profitability 7 days

Volume filter

Any volume

Difficulty for revenue

Average last 24h

Selected exchanges

Abucoins

Bitfinex

Bittrex

Bleutrade

Cryptopia

HitBTC








Poloniex

YoBit

Calculate

Defaults

- Scroll down and you will see the **crypto coins** ordered by your criteria. Remember that the leader is not always the best choice and very often the *overlooked* coins are very attractive but for a **very short time**.

WHAT TO MINE									
GPU									
ASIC Coins ETH+ ETC+ EXP+ JSON Contact									
Main Add new dataset Add									
Name(Tag) Algorithm	Block Time Block Reward Last Block	Difficulty NetHash	Est. Rewards Est. Rewards 24h	Exchange Rate	Market Cap Volume	Rev. BTC Rev. 24h	Rev. \$ Profit	Profitability Current 24h 3 days 7 days	
 Musicoin(MUSIC) Ethash	BT: 13s BR: 246.20 LB: 1,605,166	5,656,450M 435.11 Gh/s 6.2%	104.9142 111.4528	0.00000148 (Bittrex) 8.5%	\$13,292,117 32.97 BTC	0.00016 0.00016	\$2.94 \$2.74	97% 106% 103% 103%	
 Metaverse(ETP) Ethash	BT: 33s BR: 2.85 LB: 794,933	8,339,193M 252.70 Gh/s -6.1%	0.8237 0.7736	0.00021100 (Bitfinex) 8.1%	\$137,863,771 78.38 BTC	0.00017 0.00016	\$2.91 \$2.71	109% 105% 105% 102%	
 Pirl(PIRL) Ethash	BT: 14s BR: 10.00 LB: 475,883	7,794,347M 556.74 Gh/s -2.9%	3.0925 3.0027	0.00005380 (Cryptopia) 3.3%	\$5,472,282 4.51 BTC	0.00017 0.00016	\$2.88 \$2.68	104% 104% 106% 79%	
 EthereumClassic(ETC) Ethash	BT: 14.47s BR: 3.88 LB: 5,028,164	118,730,303M 8.20 Th/s -0.3%	0.0788 0.0785	0.00197484 (Bittrex) 7.7%	\$3,463,344,568 3,055.12 BTC	0.00016 0.00016	\$2.76 \$2.56	97% 100% 96% 89%	
 Ethereum(ETH) Ethash	BT: 15.07s BR: 2.91 LB: 4,742,207	1,688,544,571M 112.01 Th/s -2.9%	0.0042 0.0040	0.03842054 (Poloniex) -0.7%	\$65,985,762,138 5,393.17 BTC	0.00016 0.00015	\$2.76 \$2.56	100% 100% 100% 100%	
 Ubiq(UBQ) Ethash	BT: 1m 22s BR: 8.00 LB: 320,098	21,464,187M 261.76 Gh/s 20.7%	0.8984 1.0844	0.00013887 (Bittrex) 3.0%	\$95,841,346 662.90 BTC	0.00012 0.00015	\$2.68 \$2.48	78% 97% 97% 92%	
 Expense(EXP) Ethash	BT: 42s BR: 4.00 LB: 861,838	10,516,598M 250.40 Gh/s 7.2%	0.9168 0.9831	0.00014111 (Bittrex) 12.7%	\$19,882,385 87.65 BTC	0.00013 0.00014	\$2.47 \$2.27	81% 90% 88% 79%	

2. Experiment with “What to Mine”

1. Enter your **favorite graphics card (GPU)**.
2. Change the **hash rate** and **power consumption** options if necessary.
3. Enter your **electricity costs**.
4. Which **cryptocurrency** would you **mine** and why?

What to Submit?

Create a **zip file** (e.g. **your-name-whattomine-exercise.zip**) holding the following:

- **Screenshots** of <https://whattomine.com> experiments and your adjustments
- The **text file “whattomine.txt”** containing the answers to the questions in **Section 2**.

Submit your zip file as **homework** on the course platform.