|  |  |  |  |
| --- | --- | --- | --- |
| የቪዲዮ አርዕስት | **እነቆቀልሽ #3 ተጫዋቾቹ የሂሳብ ሊቆች** | |  |
| የትምህርት ርዕስ | አመንክንዮ | |  |
| አላማ(ዎች) | ከጥያቄው ትርፍ መረጃ የመሰበሰብ ችሎታን ማሰልጠን፣በመለየት መስራት | |  |
| ርዝመት | 25 ደቂቃ | |  |
| የካምፕ አድራሻ |  | |  |
| አስተባባሪዎች |  | |  |
| የ ተማሪዎች ብዛት |  | |  |
| ቀን |  | |  |
| አስፈላጊ  መሳሪያዎች | እስኪርብቶ፣ ወረቀት | |  |
| ዝግጁነቶች | ምንም | |  |
|  | | | |
| **የቪዲዮ ጊዜ** | **የአስተባባሪ ስራ** | **የተማሪ ስራ** | |
| 00:00 - 00:26 | አጠቃላይ የቨርቹዋል ሒሳባ ካምፕ ቪዲዮ ማሰታወቂያ | |  |
| 00:27 - 00:46 | ቪዲዮ ማሰታወቂያ | |  |
| 00:47 – 02:11 | እንቆቅልሽ | |  |
| ቪዶው ካለቀ በኋላ | * ሂደቱን ማገዝ፣ ሃሳብን ማነሳሳት * የመፈትሄ ሃሳብ ሲጠቆም ተማሪዎችን ተከታታይ ጥያቆዎችን በመጠየቅ እነዳነዱ መልስ ማብራሪያ እነዳለው ማረጋገጥ | * ከ እነቆቅልሹ ገለጻ ምን መረጃ እንደሚያገኙ መወያት * የትኞቹ ሁኔታዎች እንደሚተው መለየት * አስቻይ መፍትሄዎችን ማወጅ | |

**መፍትሄ**

ያሉት አማራጮች (ቅደም ተከተሉ ለውጥ አያመጣም) አነዚህ ናቸው፡-

|  |  |  |  |
| --- | --- | --- | --- |
| **a** | **b** | **c** | **Sum** |
| 1 | 1 | 36 | **38** |
| 1 | 2 | 18 | **21** |
| 1 | 3 | 12 | **16** |
| 1 | 4 | 9 | **14** |
| 2 | 2 | 9 | **13** |
| 2 | 3 | 6 | **11** |
| 1 | 6 | 6 | **13** |
| 3 | 3 | 4 | **10** |

In order convince someone that these are all the options one can see that 36 is 3222. After that you may write each factor in a sheet of paper and with the papers one can try to form 3 groups. Empty group means one.

Also, try starting with **1 1 36**  and then decrease the last number gradually.

The table above represents what we know thanks to the answers given by the second mathematician (Fil).

But another important information is that the first mathematician (Mike) is not able to know the correct combination, even if he knows the actual value of the sum!

This can only happen if the number corresponding to the correct sum appears more than once in the list! (otherwise he would have guessed the correct numbers after the second question) So, the sum must be 13, and the corresponding combinations are:

|  |  |  |
| --- | --- | --- |
| 2 | 2 | 9 |

|  |  |  |
| --- | --- | --- |
| 1 | 6 | 6 |

The final clue is that the youngest child has blue eyes.

What we get from this clue is that now we know that a youngest child exists!

So **2 2 9** is not possible and **1 6 6** is the only remaining option.