**Tatizo la mchwa - manukuu:**

**Mazungumzo huanza kwa sekunde 40 kwa hivyo niliongeza sekunde 27 kwa nyakati kama zilivyokuwa - John Argentino**

1

00:00:00,000 --> 00:00:40,000

[Muziki]

2

00:00:40,000 --> 00:00:43,000

sawa kwa hivyo mafumbo nitaenda

3

00:00:43,000 --> 00:00:45,000

changamoto uliyonayo ni mbili za msingi

4

00:00:45,000 --> 00:00:47,000

matoleo ya fumbo ngumu zaidi

5

00:00:47,000 --> 00:00:50,000

inayojulikana kama fumbo la mchwa, ambalo mimi ni

6

00:00:50,000 --> 00:00:51,000

pengine kwenda kujadili katika tofauti

7

00:00:51,000 --> 00:00:54,000

video. Ngoja nimalizie kuandika

8

00:00:54,000 --> 00:00:58,000

kichwa na, vizuri, naweza hata kuchora a

9

00:00:58,000 --> 00:01:11,000

mchwa mdogo hapa. sawa, tupate

10

00:01:11,000 --> 00:01:15,000

imeanza! Kama nilivyosema nitajadili

11

00:01:15,000 --> 00:01:18,000

mafumbo mawili katika fumbo la kwanza hapo

12

00:01:18,000 --> 00:01:22,000

ni mchwa wawili kwenye kinyesi cha juu sana: aina

13

00:01:22,000 --> 00:01:25,000

ya Mlima, gorofa juu na mbili

14

00:01:25,000 --> 00:01:28,000

miamba mikali kwa pande zote mbili. Gorofa

15

Gorofa

peak is one meter wide the two ants move

16

00:01:32,000 --> 00:01:36,000

kwa kasi, tuiite V, ambayo ni

17

00:01:36,000 --> 00:01:38,000

sawa kwa wote wawili na hiyo ni

18

00:01:38,000 --> 00:01:41,000

sawa na sentimita moja kwa sekunde. Wewe

19

00:01:41,000 --> 00:01:43,000

inaweza kuamua mwelekeo kuelekea kila mmoja

20

00:01:43,000 --> 00:01:46,000

mchwa husogea ikiwa ni kulia au kushoto na

21

00:01:46,000 --> 00:01:49,000

wapi hasa kuweka mchwa wawili kwenye

22

00:01:49,000 --> 00:01:53,000

juu ya mlima. Your purpose is to

23

00:01:53,000 --> 00:01:55,000

make the time the last ant takes before

24

00:01:55,000 --> 00:01:58,000

falling the longest possible. Ants cannot

25

00:01:58,000 --> 00:02:01,000

be still: they must move to the right or

25

00:02:01,000 --> 00:02:04,000

to the left but they must move and after

26

00:02:04,000 --> 00:02:07,000

meeting each other they turn around and

27

00:02:07,000 --> 00:02:10,000

keep moving with the same but opposite

28

00:02:10,000 --> 00:02:12,000

velocity

29

00:02:12,000 --> 00:02:16,000

[Muziki]

30

00:02:16,000 --> 00:02:20,000

so again what are the precise positions

31

00:02:20,000 --> 00:02:23,000

where I should place the two ants in

32

00:02:23,000 --> 00:02:25,000

order to get the longest time before the

33

00:02:25,000 --> 00:02:37,000

last ant falls? The second puzzle is

34

00:02:37,000 --> 00:02:39,000

basically the same but now we have three

35

00:02:39,000 --> 00:02:41,000

ants instead of two.

36

00:02:41,000 --> 00:02:44,000

As before the ants velocity is one

37

00:02:44,000 --> 00:02:46,000

centimeter per second, every ant turns

38

00:02:46,000 --> 00:02:48,000

around after meeting another ant and

39

00:02:48,000 --> 00:02:52,000

the peak is one meter wide. So, what are

40

00:02:52,000 --> 00:02:55,000

now the precise positions

41

00:02:55,000 --> 00:02:58,000

I should place the three ants in order

42

00:02:58,000 --> 00:03:00,000

to get the longest time before the last

43

00:03:00,000 --> 00:03:06,000

ant falls down? I hope you enjoyed this

44

00:03:06,000 --> 00:03:09,000

video do your best and good luck