I love Math Circles

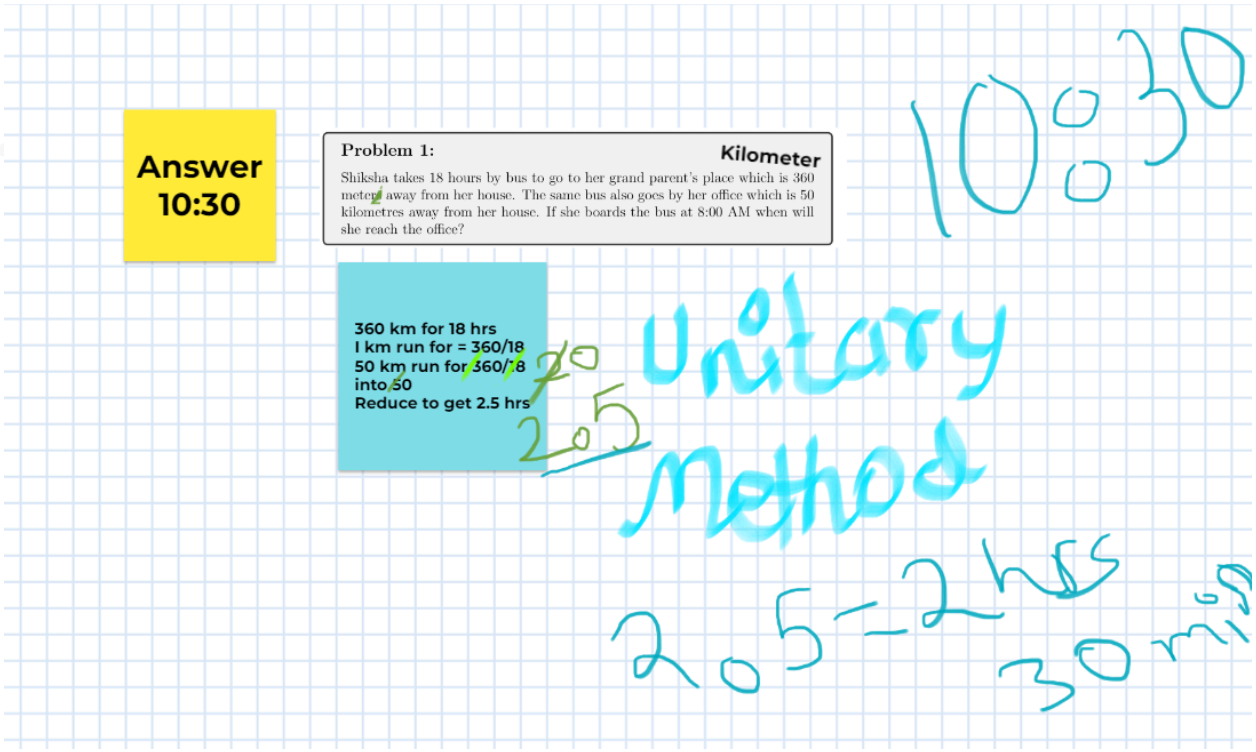
15 Sept 2024

I was doing the math circle with Priyasha Advit And Anvi.

For the first problem all of us were having difficulties understanding, then Advit who had done the problem before told us his approach. After him Anvi shared her approach. We then tried to solve the problem together.

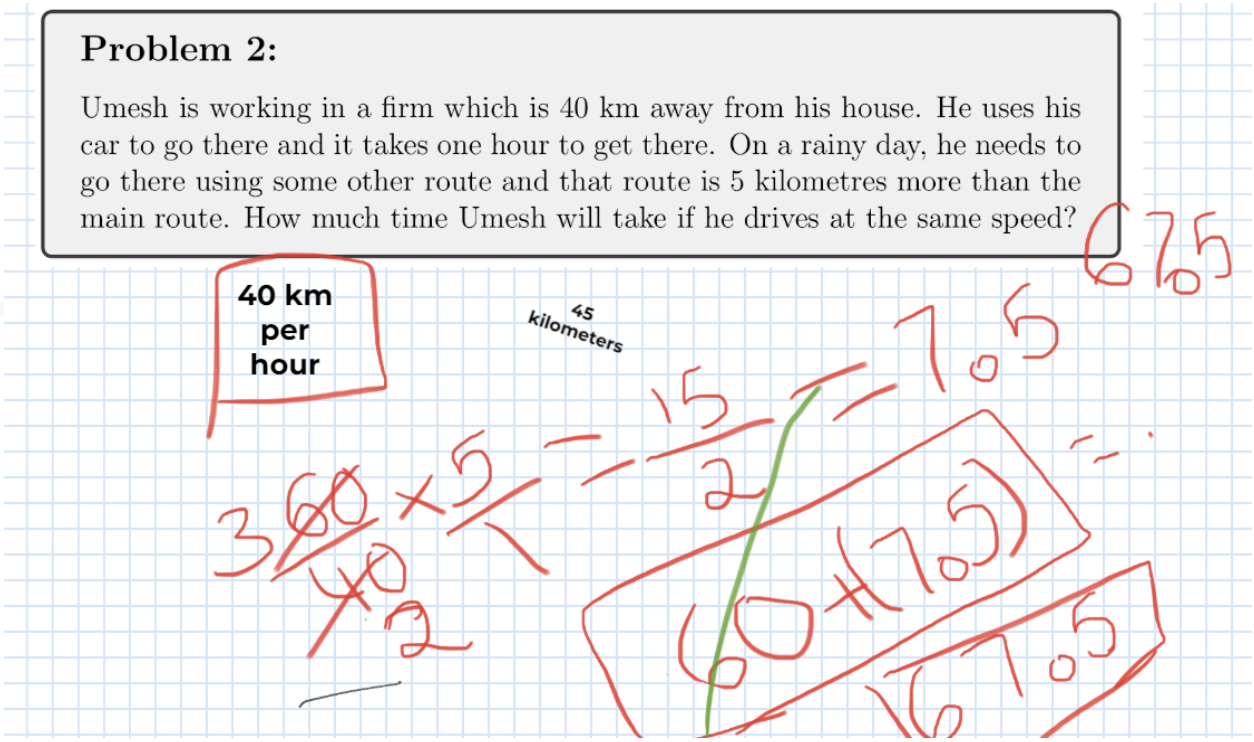
I learnt the unitary method in this problem. In this problem first we divided 360 Kms by 18 to find out how much the bus will cover in 1 hour = 20 Km in 1 Hour.

Now we have find how much time it took to cover 50 Kms = 50 divided by 20.= 2 and a half hours. So if she started at 8 am, she would reach at 10:30 am

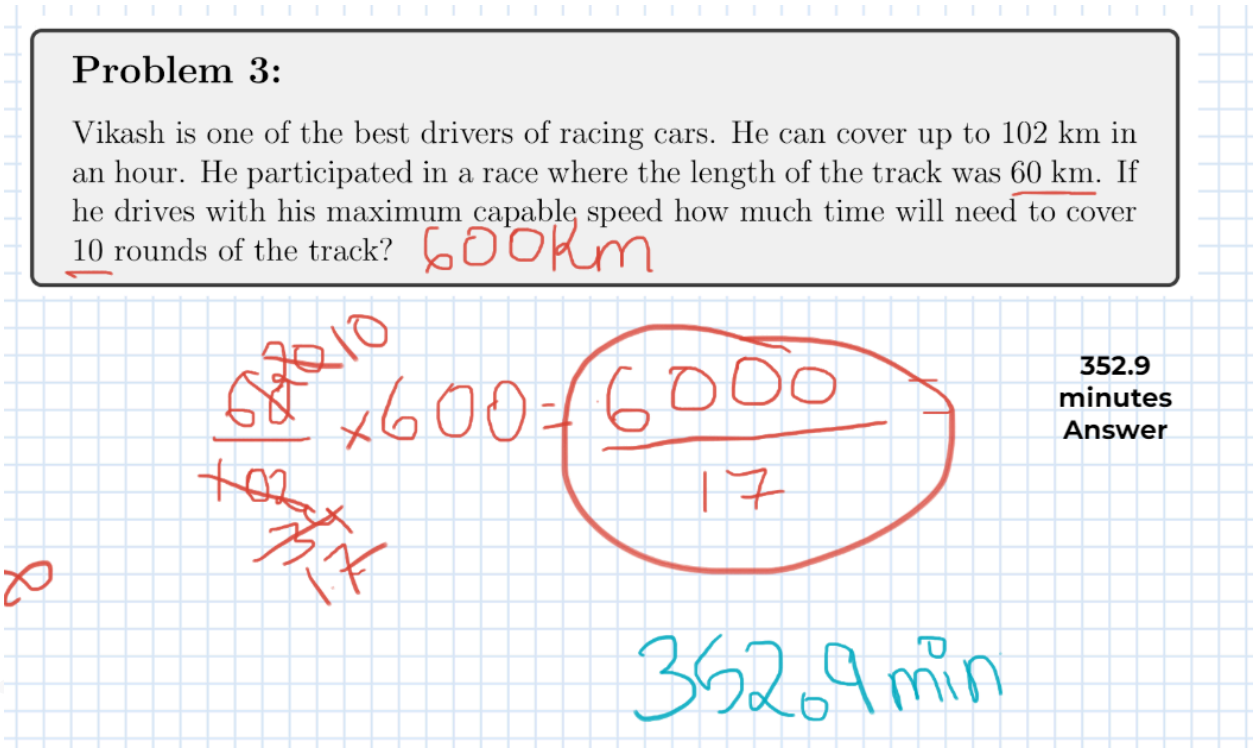


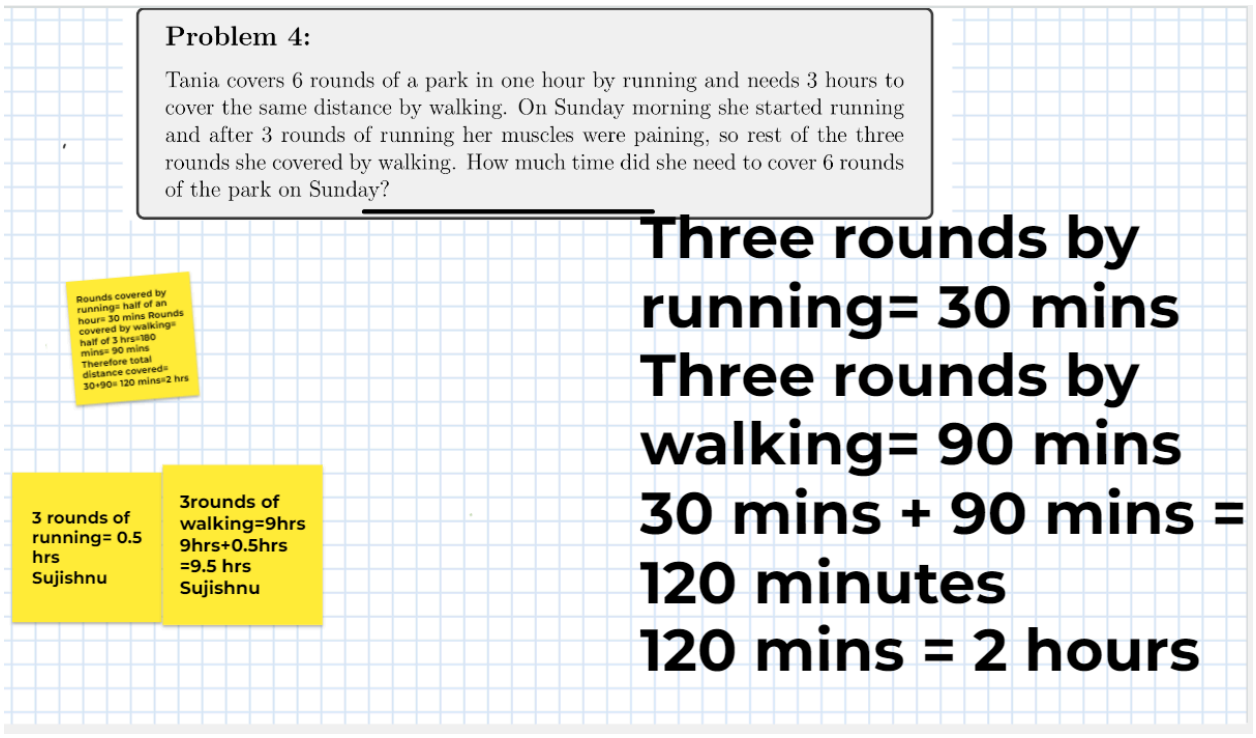
Problem to for me was really difficult Anvi who had already done it before give her approach. Advit who understood also gave his approach. I later tried to understand what the solution was.

Anvi suggested that why don't we find how much distance or kilometers he can cover in one hour. After doing that we got the answer as 40 km per hour. Then we have to find how much time it would take to cover 5 Kms. So we said if we divide 40 Km Into 8 parts every part would be 5 km.Then we divided one hour into 8 parts. That we added to one hour to get the answer which 1 hour and 7 ½ mins.



Other problems we did were also on speed and we solved them together.



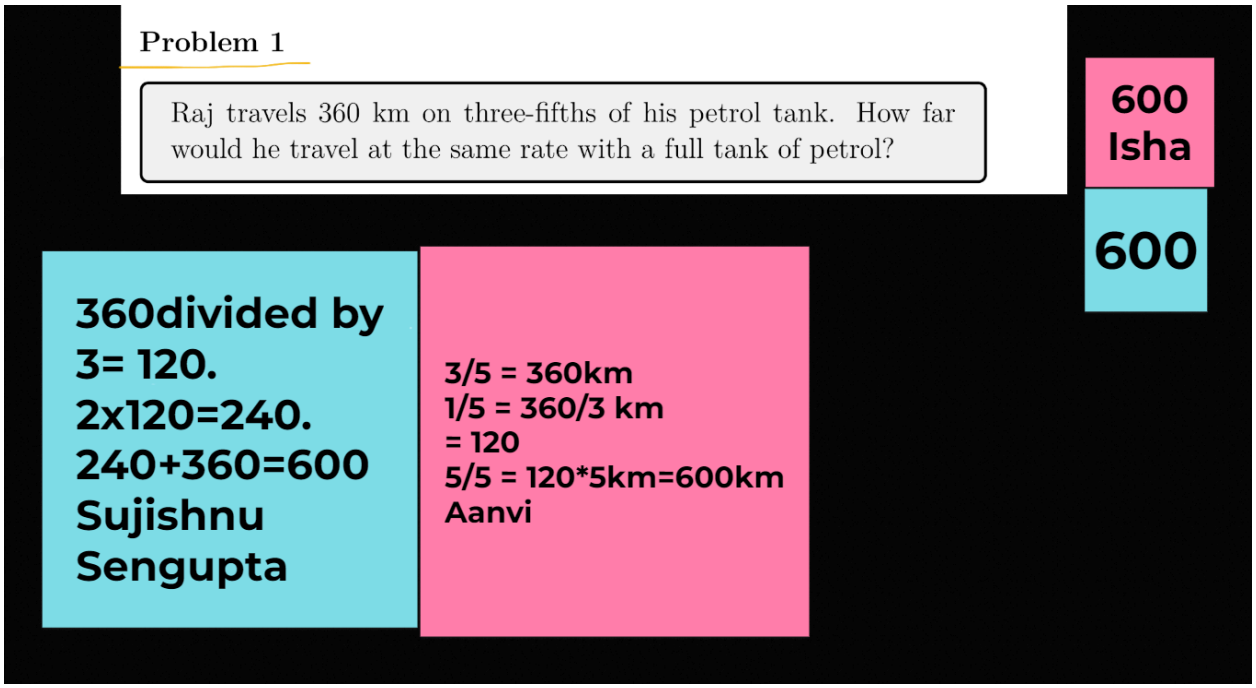


22 Sept 2024

This math circle was based on fractions.

At first all of us read the first problem. The problem was about a boy named Raj who could travel 360 km on 3/5th of his petrol tank. how far could he travel at the same rate with a full tank of petrol.

I told class my Idea was 360 divided by 3 to get one fifth of the tank of petrol which got me the answer as 120 then we multiplied 120 by 5 getting us the answer as 600 that is how I got the answer.



Problem 2 was a bit hard as I did not understand the percentage but Anvi who had done the problem before told me what she thought about it. Anvi had first - 75% From 100% she had gotten 25 percent as rupees 600. therefore we did 600 into4 equal 2400 to get the answer hence the answer is 2400 .

Problem 2

Priya 3/4

A person goes shopping and spends 75% of his money. If he is now left with Rs. 600, find out how much he had in the beginning.

25%=Rs 600
100%=Rs 600*4
=Rs 2400 Aanvi

2400
Isha

Similar ways we solve the rest of the problem. I have shown you the Jamboards of the third problem below. In the third problem 12 3/4 is equal to 51 by 4 m hence answer is zero.

Problem 3

A piece of wire is of length $12^{3/4}$ m. If it is cut into two pieces in such a way that the length of one piece is 51/4 m. What is the length of the other piece?

12 3/4 = 51/4

51/4 - 51/4 = 0

zero<
Isha

Problem 4

Find the fraction which is as much greater than $\frac{5}{8}$ as is less than $\frac{6}{7}$

5/8+6/7=
48+35/56=83/56
83/56 by
2/1=83/56*1/2=83/112

112
Isha