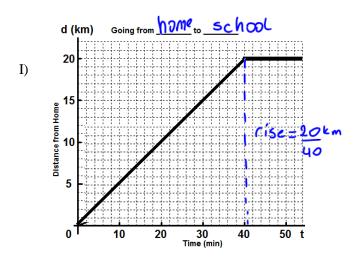
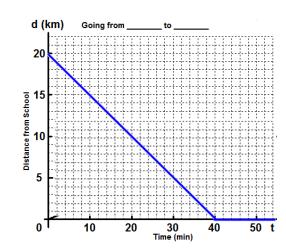
Day 1 - STEADY GONZALES

Graph below shows Gonzales' journey from his home to school over time.





- a) How far does Gonzales live from school? 20km
- b) How long does it take Gonzales to reach school?
- c) What is Gonzales's rate of change (speed / slope)? (Leave time as min)

$$speed = \frac{distance}{time}$$

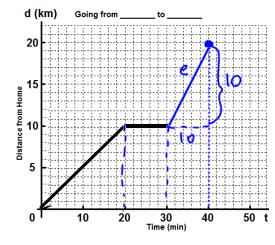
d) Does Gonzales's speed change throughout his journey according to this graph? nope, it's stoody/constant

II)

- e) What does that horizontal line signify in the graph? When he arrives of school and staying there.
- f) Graph this scenario from friend of Gonzales's perspective who is waiting at school to meet him

Day 2 - SPEEDY GONZALES

Now we know that, Gonzales lives 20km away from school. Another day and he leaves home at 7:20 am; he has to be at school at 8:00 am.



- a) How long his journey will take on day 2? 40 min
- b) Calculate his rate of change (speed) for the first 20 minutes and describe this part of his journey.

Speed = 10 = 0.5 km/min speed of 0.5 km/min or 30 km/L

c) What do you think happened between 20 and 30 minutes of his journey?

He stops for exactly 10 min b/c he is still 10km away from d) He checks his time and it reads $\frac{7.50}{1.50}$ am. How many minutes does he

- have left to make to school on time? __lomiq_
- e) Draw a straight line after 30 minutes which indicates that he arrived school on time.

f) What do you notice about the steepness of the line between 30 and 40 minutes of his journey compared to that of 0 and

speed = 10 - 1km/1min 60km/h He's foster by 30 km/h 20 minutes?

g) The steeper the line the Gode Gonzales travels.

DAY 3 - GONZALES THE FORGETFUL

As usual Gonzales leaves home at 7:20 am and has to be at school at 8:00 am latest. Describe in detail Gonzales' journey to school on the third day.

Speed(c) = $\frac{10}{8} \times 60 = 75 \text{km/h}$ Speed(0) = 0 Speed(E) = $\frac{10 \times 60}{6} = \frac{100 \text{km/h}}{6}$ Speed(F) = $\frac{10}{10} \times 60 = -60 \text{km/h}$

(A) Gonzales heads towards school at a constant speed of 60km/h for 10 min. As he was humming his favourite sping, he screams out loud:

"Oh shish kebab, did I pick up my moth project?" His awesome paves enoble him to stop without slowing down. He checks his backpack for 2 minutes (B) It is not there. He has to make a cledision and heads back home (C) at a constant speed of 75 km/h for 8 min. He spends 4 min trying to find his project. The soon as he finds it, he heads toward school again at a constant speed of 100 km/h for 6 minutes (E). He checks his time and realizes that he doo not have to rish; therefore, he slows down to a constant speed of 60 km/h. He orrives school in 40 min (G) and stays there.