

## THE 2021 YOUNG MATHEMATICAL STORY AUTHOR (YMSA) COMPETITION

## THE CINDY NEUSCHWANDER AWARD (THE 12-15 YEARS OLD CATEGORY)

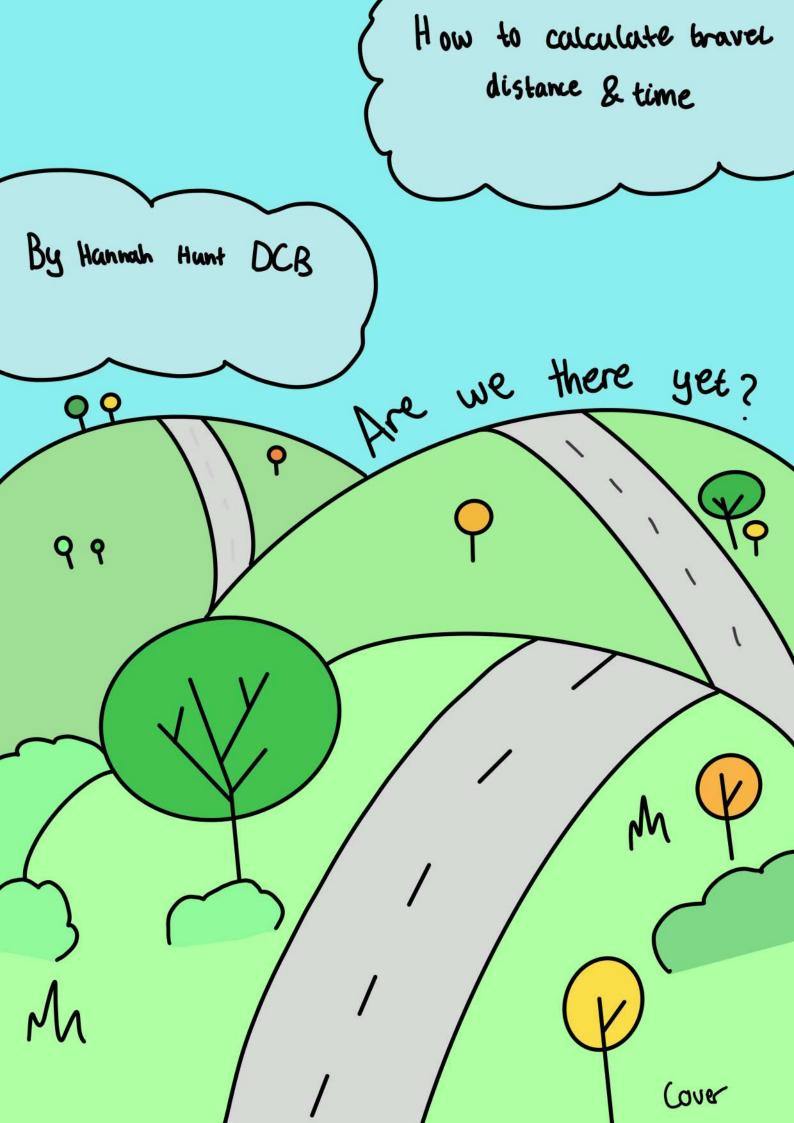
## **SHORTLISTED**

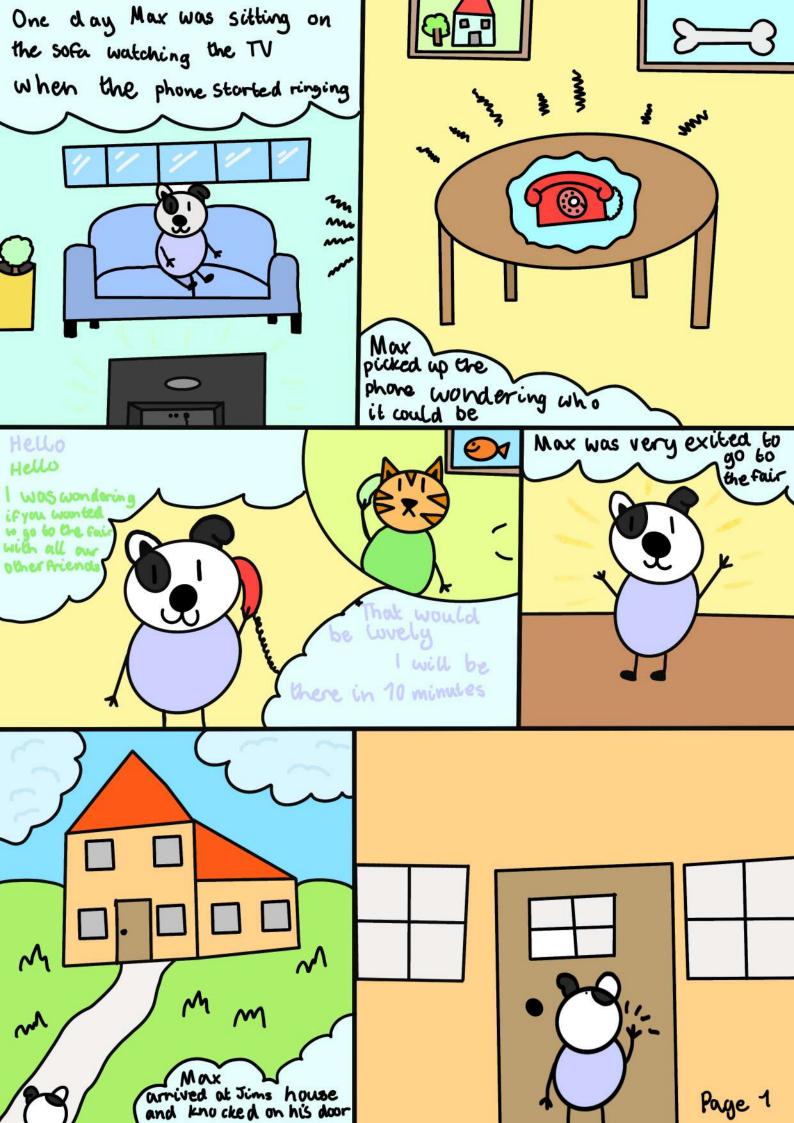
'How to Calculate Travel Distance & Time' by Hannah Hunt (13 years old) at Dulwich College Beijing (China)

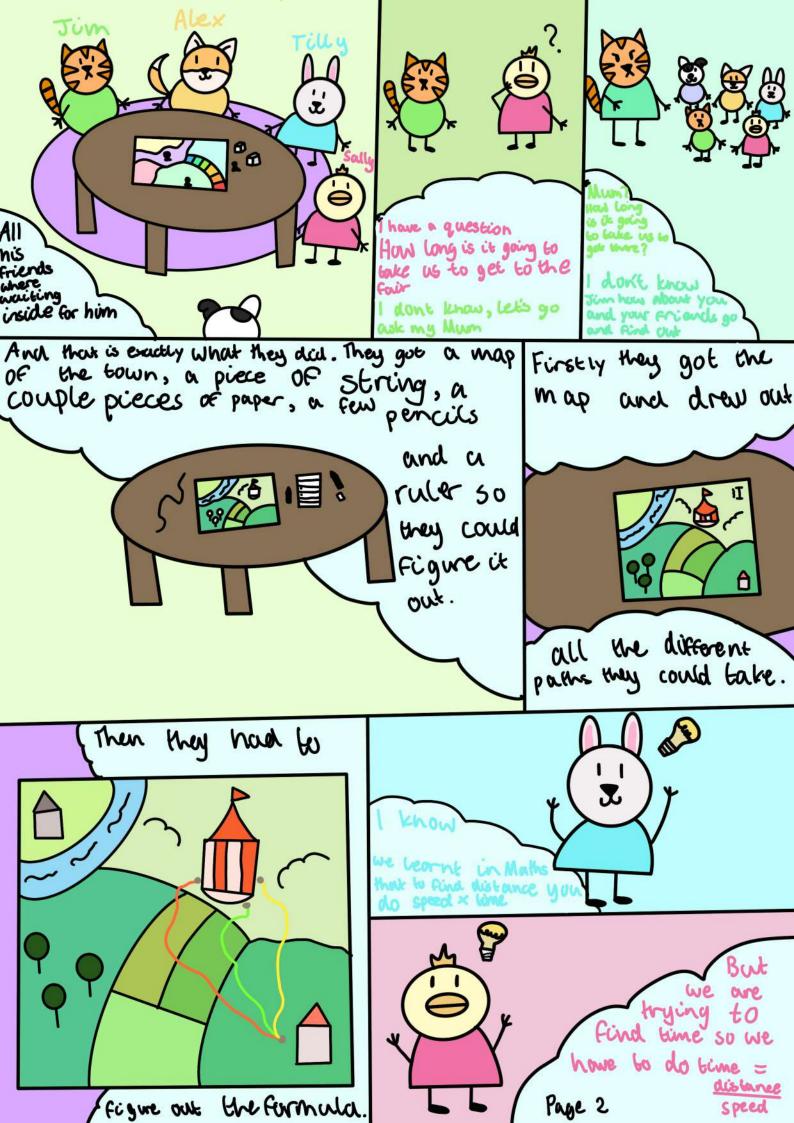
You can read the author's inspiration for the story and the judges' comments on:

www.mathsthroughstories.org/ymsa2021

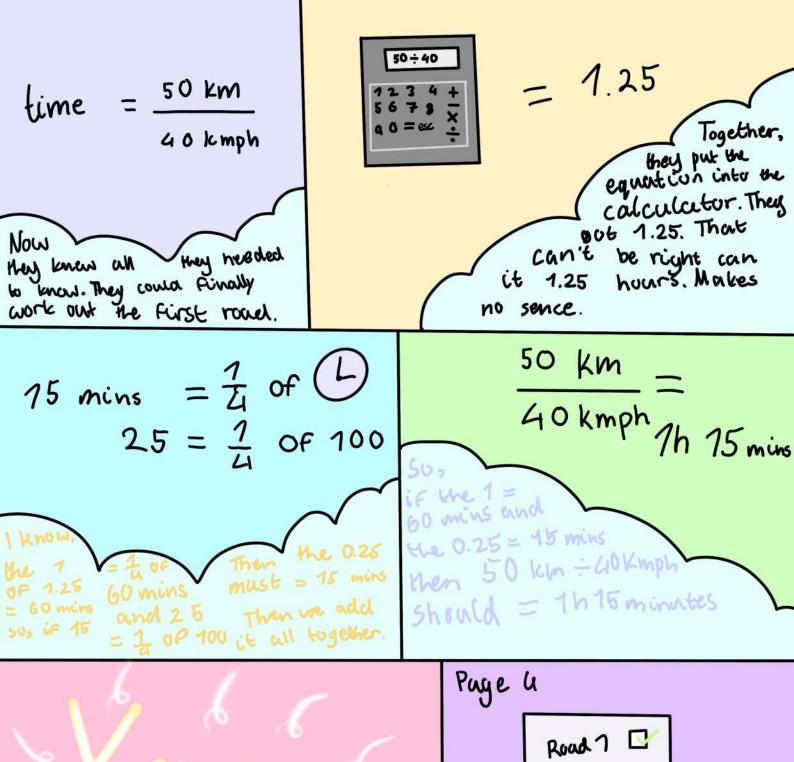
**#YMSAMaths** 











Wow! They had done it, they had figured out how long it would take them to get to the fair if they took the first road. They they took the first road. They were all proud of each other.

Road 2 | Road 3 | Now they had completed they only had to concert they road they roads to see with one they should take to the fair.



25 cm

repited each shop skarting with puriting the string on the map.

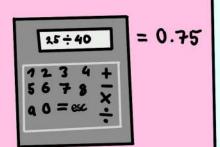
I hey then measured that string using a ruler. It measured 25 cm.

## = 25 km 25 cm

25 km

the string was 25 cm and 1 cm = 1 cm then the leaningth of the road would be 25km.

40 Kmph Now they have l to divide distance by speed



They had to convert is into minutes . IF 0.75 = 3 then 45 minutes must be the answer.

 $0.75 = \frac{3}{4}$ 45 min = 3

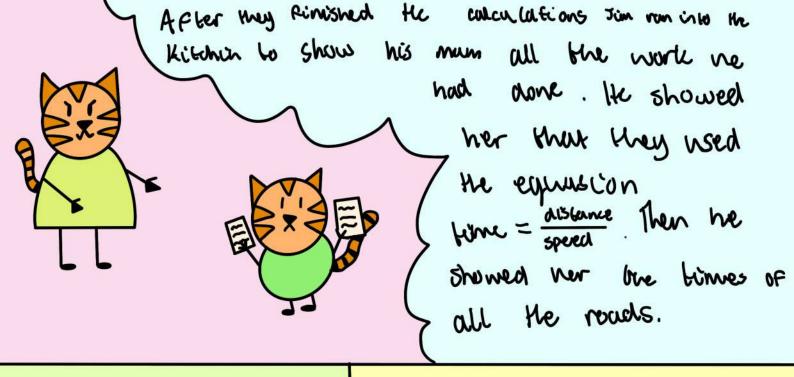
sully typed 25 into the calculator but, before they got the answer there was one more step.

Road 7 C Road 2 C Road 3 🗆

Page 5 Road 1 = 1h 15 mins Road 2 = 45 mins

They did it again they had figured out how long it would take them if they took Road 2.

The L goes to one smaller one Road 1 < Road 2 Between' Road 2? Road 3 Road 1 and Road 2, Road 2 would be the better road to had bo to Find calculate take, but they still he best Road to take. Road 3 60 cm They repeated the They the put we her the map steps again. Frope on measured it. 60 - 40 = 7.5Road 1 < Road 2 Road 2 > Road 3 but 60 km = 40 kmph Road 2 14 30 mins Finally sering Hey Now May measured figured out have so put wich road took we 60 cm wich = 60 km. 1.5 into minutes. They hyped the equation shortest amount of 1.6 = 1 h 30 minutes. time. Ruad 2 was the best into the content outer.



Time = Distance Speed

Road 1 = 1h15minRoad 2 = 45minRoad 3 = 1h30min

Road 2 > Road 2

Road 2 is

Road 2 is

She was impressed and proud of the quickest

when for finding out wich road they should lake to the fair:



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Now they could set op for the fair wing rowa.

2 to get there since this road would insure they would have more time to enjoy howing fun on the riches.







