Plan for the week...

We are going to practice our trigonometry. Any problems can be done on the board if you ask.

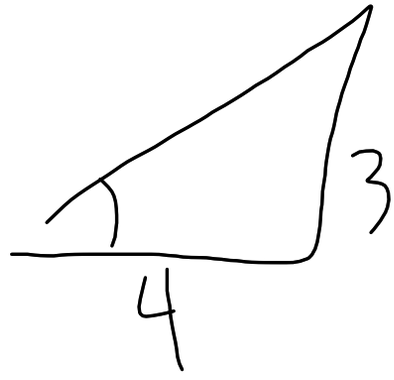
Complete Ratios and Proportions booklet first and check your answers on essentialmath.weebly.com

There is a new booklet that comes with a guide. Only do the questions in the guide, some you can omit.

Test is Friday!

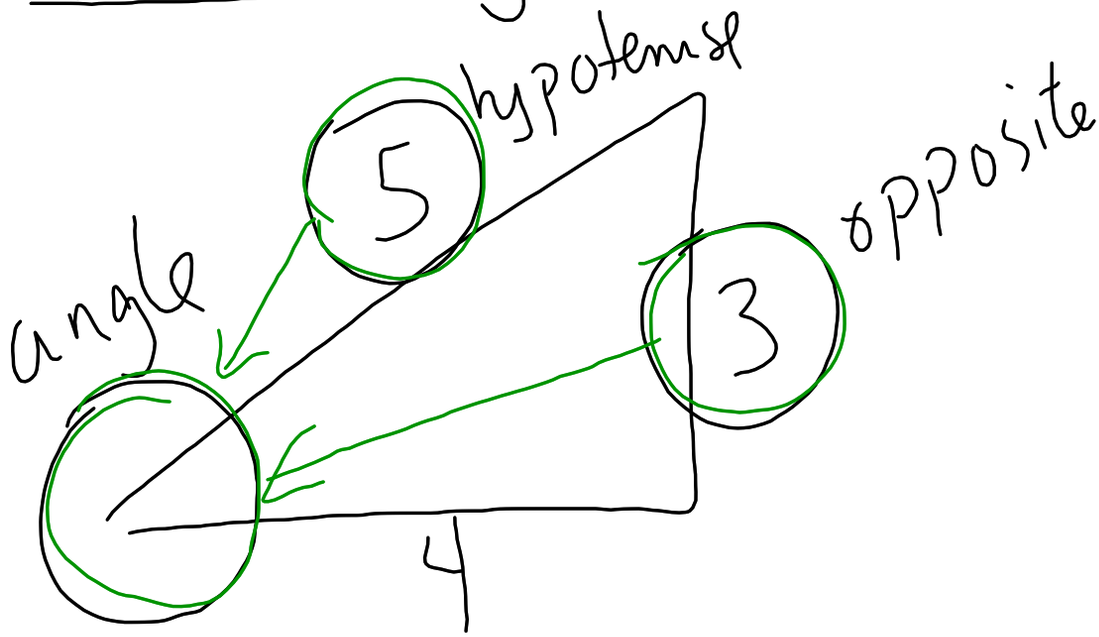
Why are there so many quizzes? Testing you with a single topic worth few marks before the big thing - Test.

Why did we spend 1 hour with the 3-4-5 triangle, a protractor, and a sine table?



Ratio

two things are needed



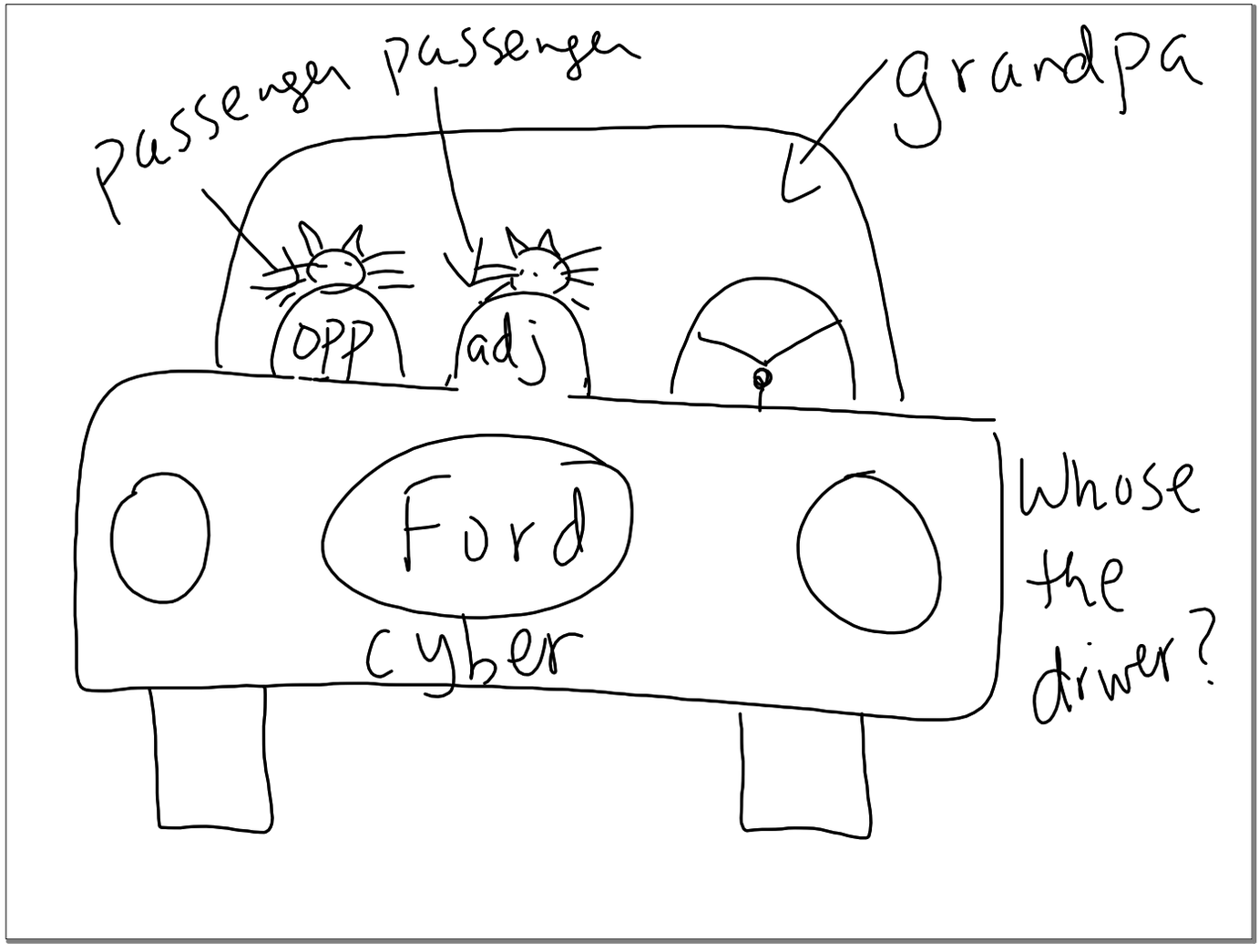
$$\frac{\text{opp}}{\text{hyp}} \quad \frac{3}{5} = 0.6$$

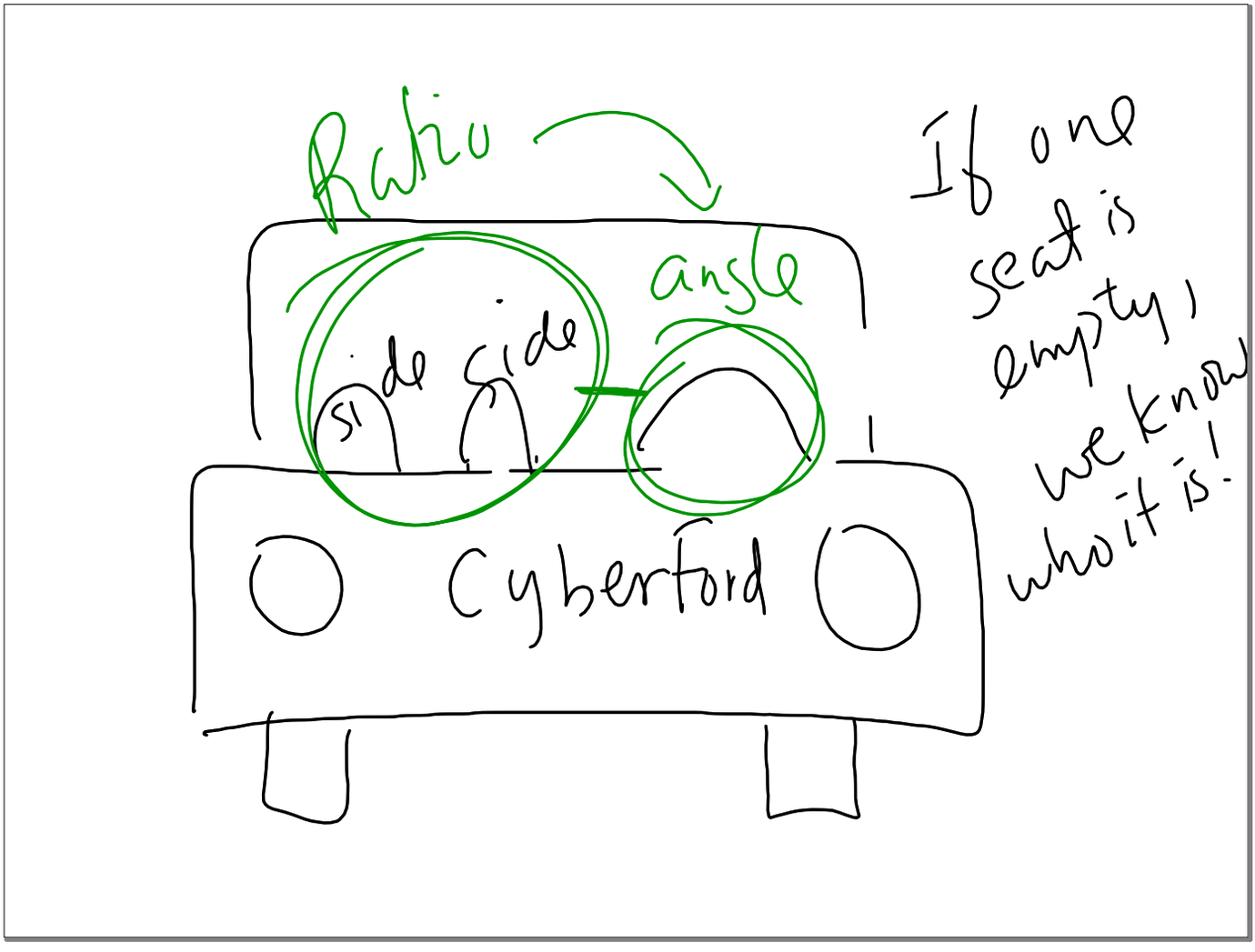
$\frac{opp}{hyp}$ is a ratio $\frac{3}{5} = 0.6$

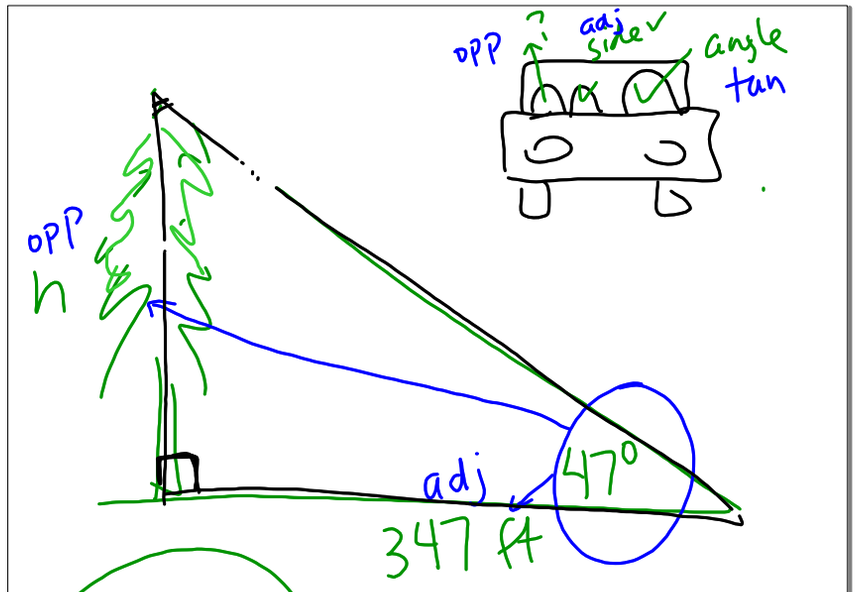
opp : hyp is a ratio 3:5

Q. which form is easiest to understand?

- Ratio of opp to hyp or $\frac{opp}{hyp}$ gave us 0.6
- 0.6 is the sine of the angle
- sine of angle gives us the angle.


passenger passenger
grandpa
opp
adj
Ford
cyber
Whose the driver?


Ratio
angle
side side
Cyberford
If one seat is empty, we know who it is!



h - opp
347 - adj
47° - angle
give us this

$\frac{opp}{adj}$ is a ratio of the tan of the angle

$\frac{opp}{347} = \tan 47^\circ$

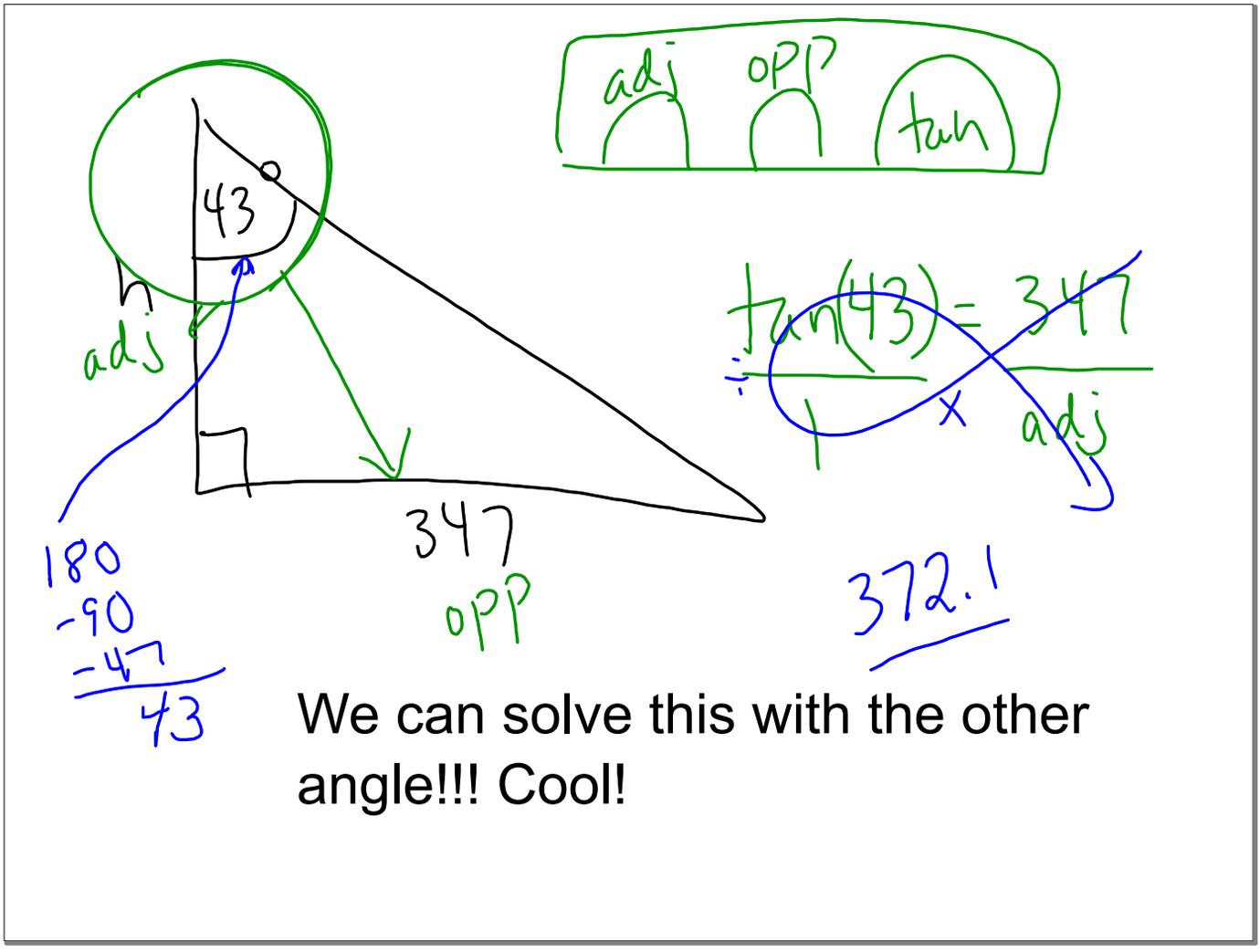
$\frac{opp}{347} = 1.0724$

$opp = 372.1$

with a calc

$$\frac{\text{OPP}}{347} = \frac{\tan(47)}{1}$$

$\tan(47) \times 347 = 372.1$



We can solve this with the other angle!!! Cool!