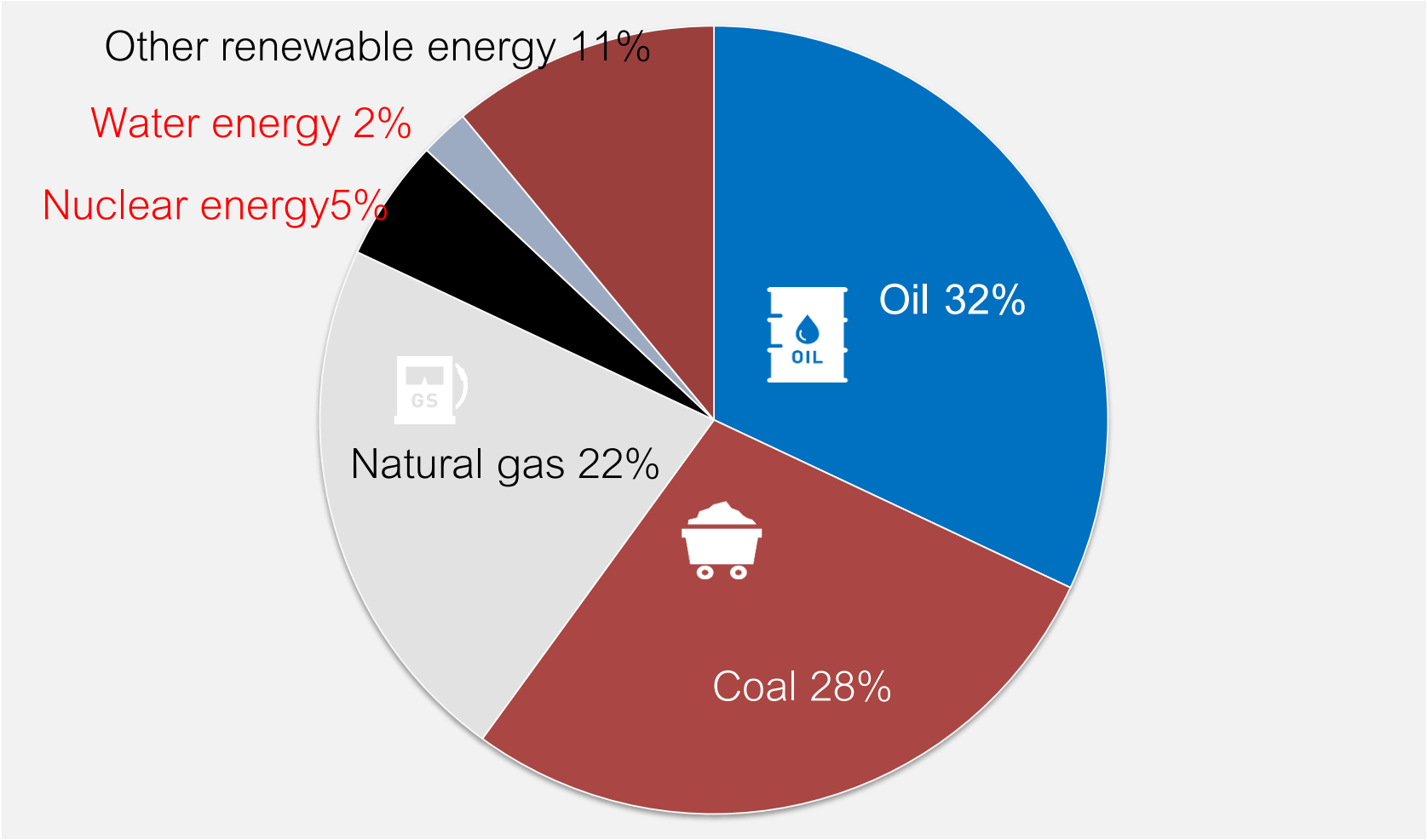
Chapter 2

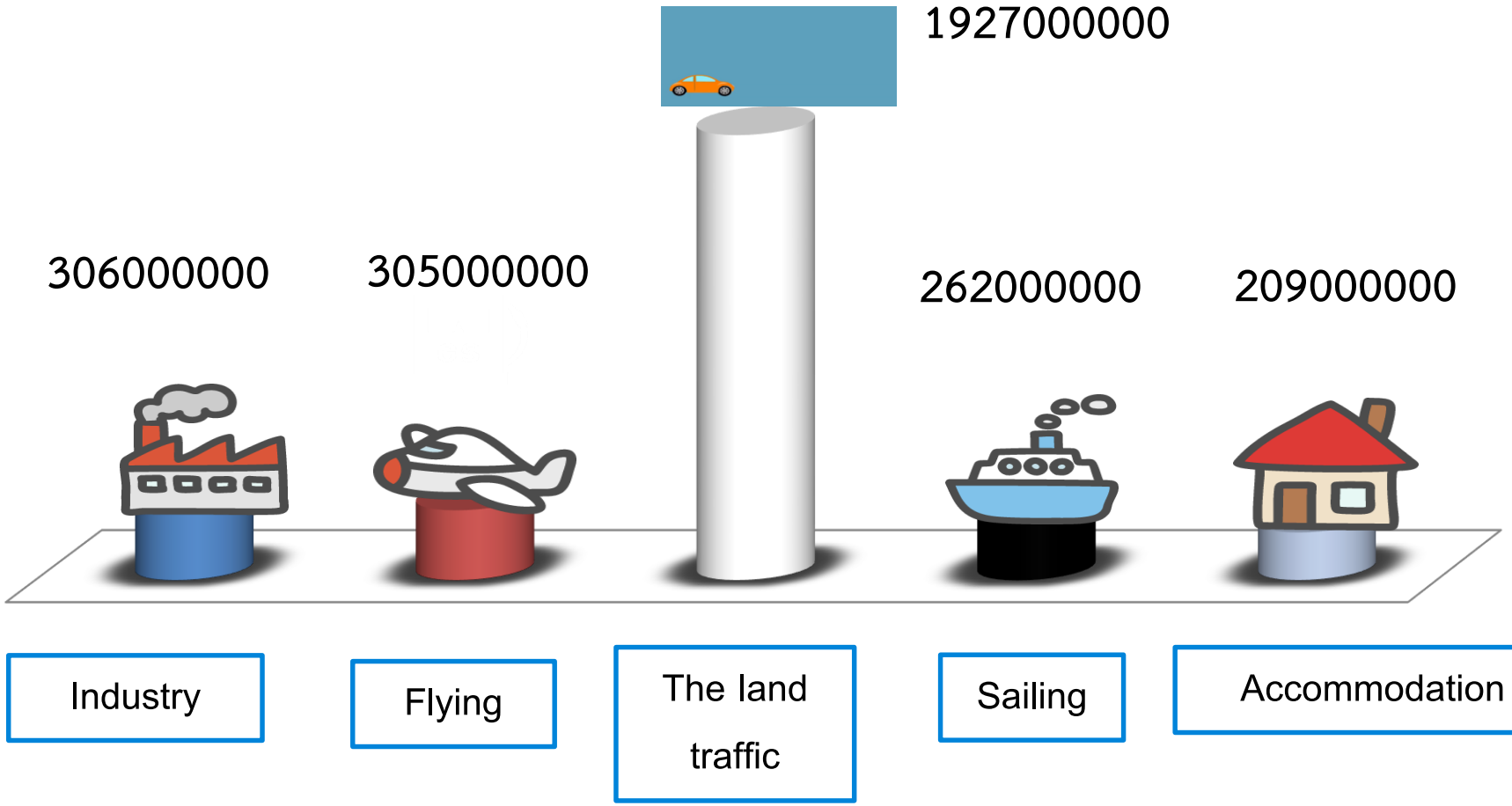
CHARGING WITHOUT FILLING FUEL

Fuel has the highest proportion of ENERGY



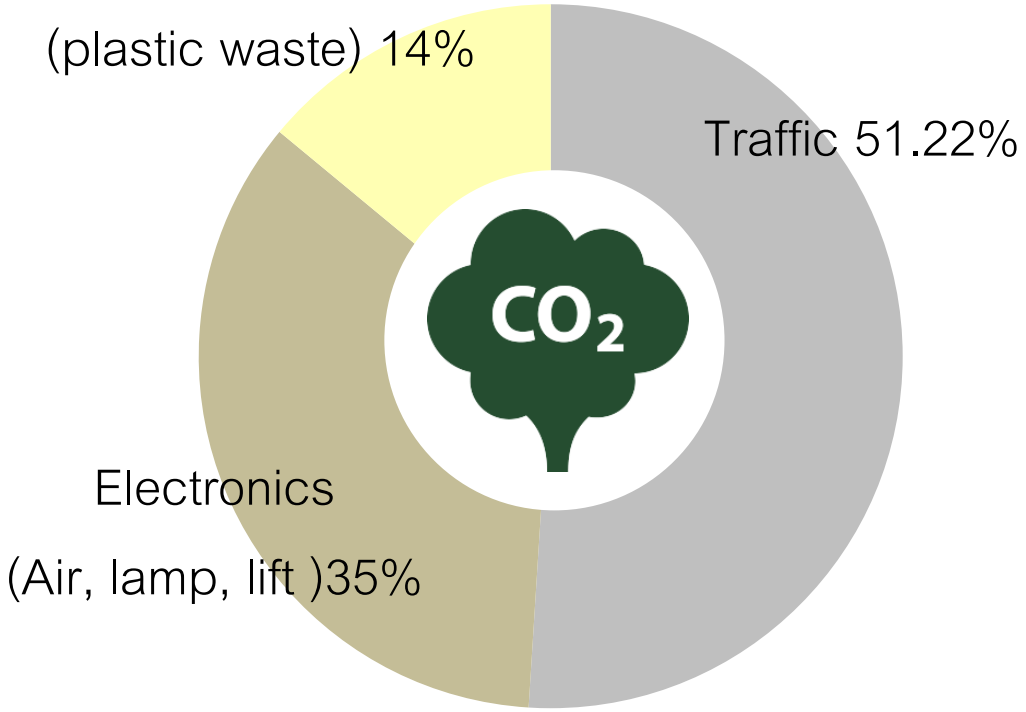
The world's most used fuel for vehicles

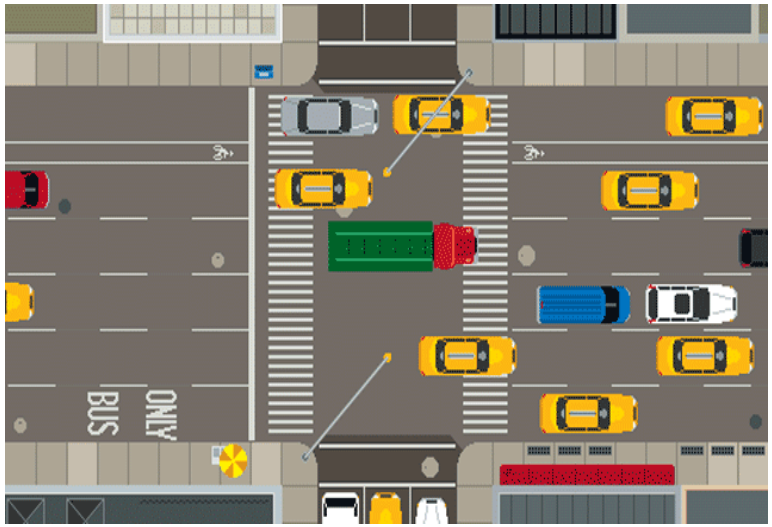
Fuel used in 2017 (unit : ton)



Emissions of Carbon Dioxide

44.65 million tons in Bangkok.





How filling fuel VS Charging are different

1. Fuel produce dust.
2. Causing acid rain.
3. Causing air pollution.
4. Petrol is expensive.
5. Car charger can ran far
6. A few car charging points

The car also runs at a distance of one kilometer.

How much carbon does each vehicle produce?

Car 

183~275 g

Bus 
1154g

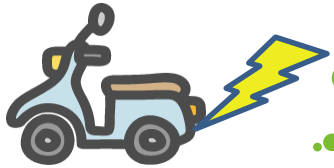
Motorcycle 
50.8g

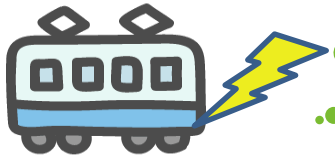
Bus 
810g

Electric car 

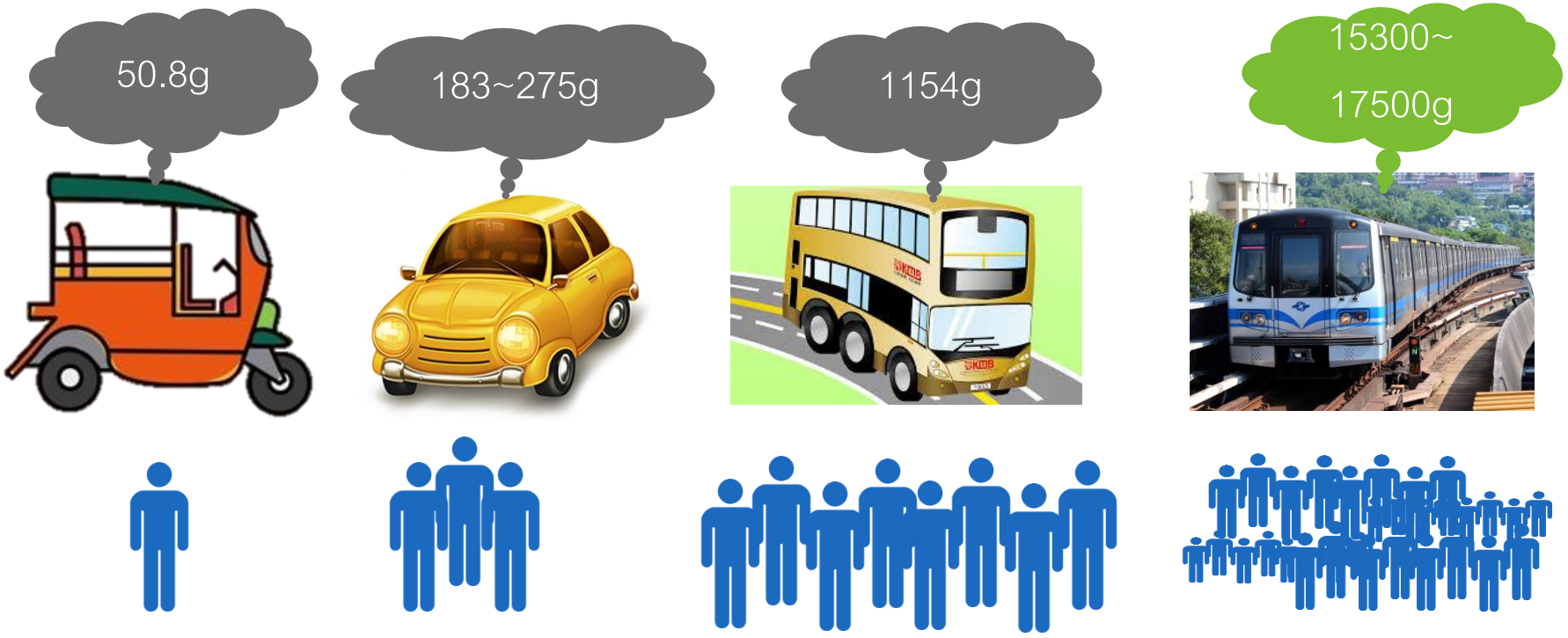
146.94g

Electric bus 
720~770g

Electric Motorcycle 
25.2g

MRT 
15300~ 17500g

Comparison Carbon Emissions



Why does the electric trains have high carbon?

Situation

It's the Songkran festival. Most people take advantage of this holiday from Bangkok to Hua-Hin. Last year, there were a hundred and forty thousand foreign tourists travelling from Bangkok to Hua-Hin. Viewed from today, there are up to eight thousand vehicles. There are so many people from Bangkok to Hua-Hin. Guess how much carbon they emit from traffic?

How to travel

from Bangkok to Hua-Hin?

Bangkok 198.7 Kilometers Hua Hin

1. Van or charter vehicle Most independent tourists will use this method. Because it's convenient and cheap

2. Bus can go from Suvarnabhumi Airport directly to Hua Hin.

3. The train takes an over time and the car may be delayed.

4. Driving your own car is another convenient way for those who prefer high independence.

If everyone drives by themselves, what are the disadvantages?

One tree absorbs 0.035 kilograms of carbon dioxide per day.

275 grams X 198.7 kilometers X 140,000 cars = _____ kg carbon dioxide

Therefore, the carbon emissions of cars from Bangkok to Hua-Hin are equal to trees _____ trees per day.

Comparison of Carbon Traffic

Carbon vehicle

The back of every vehicle card is marked with carbon emissions.

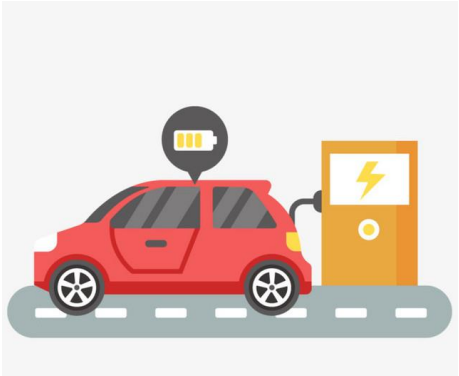
Carbon 20

Carbon 70

Carbon 10

Carbon 30

Use the green magic card.

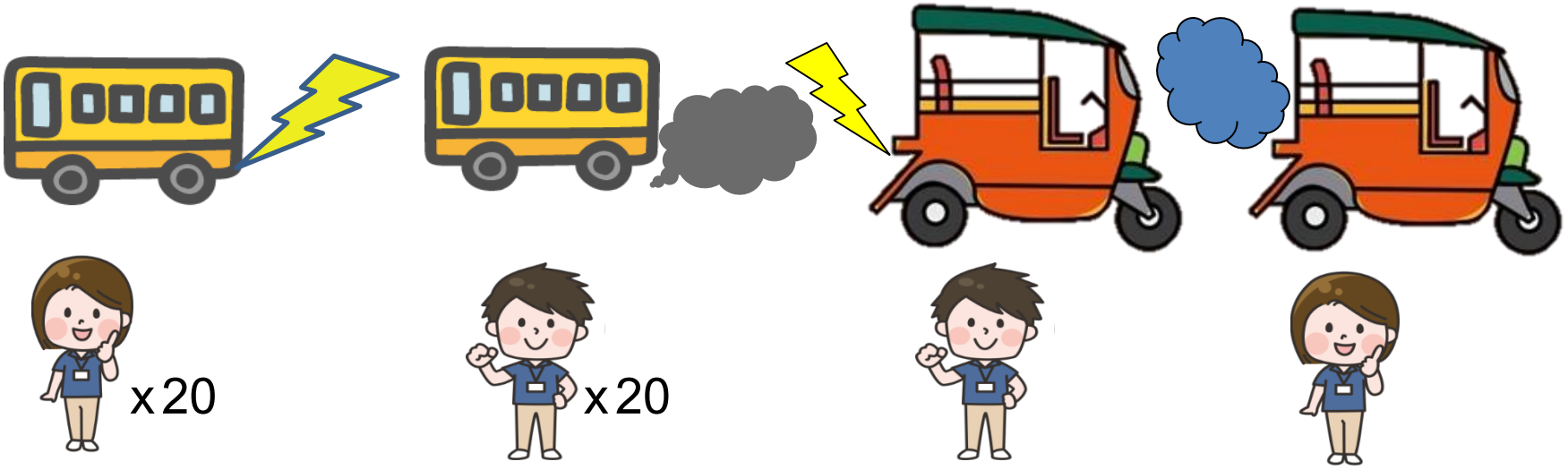


Carbon 30

Carbon 15

Carbon 10

Comparison of carbon reduction of vehicles.



20

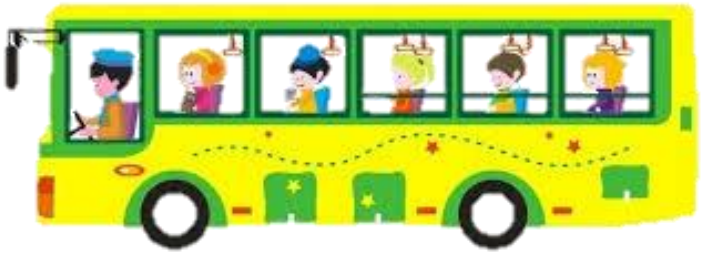
1154

30

50.8

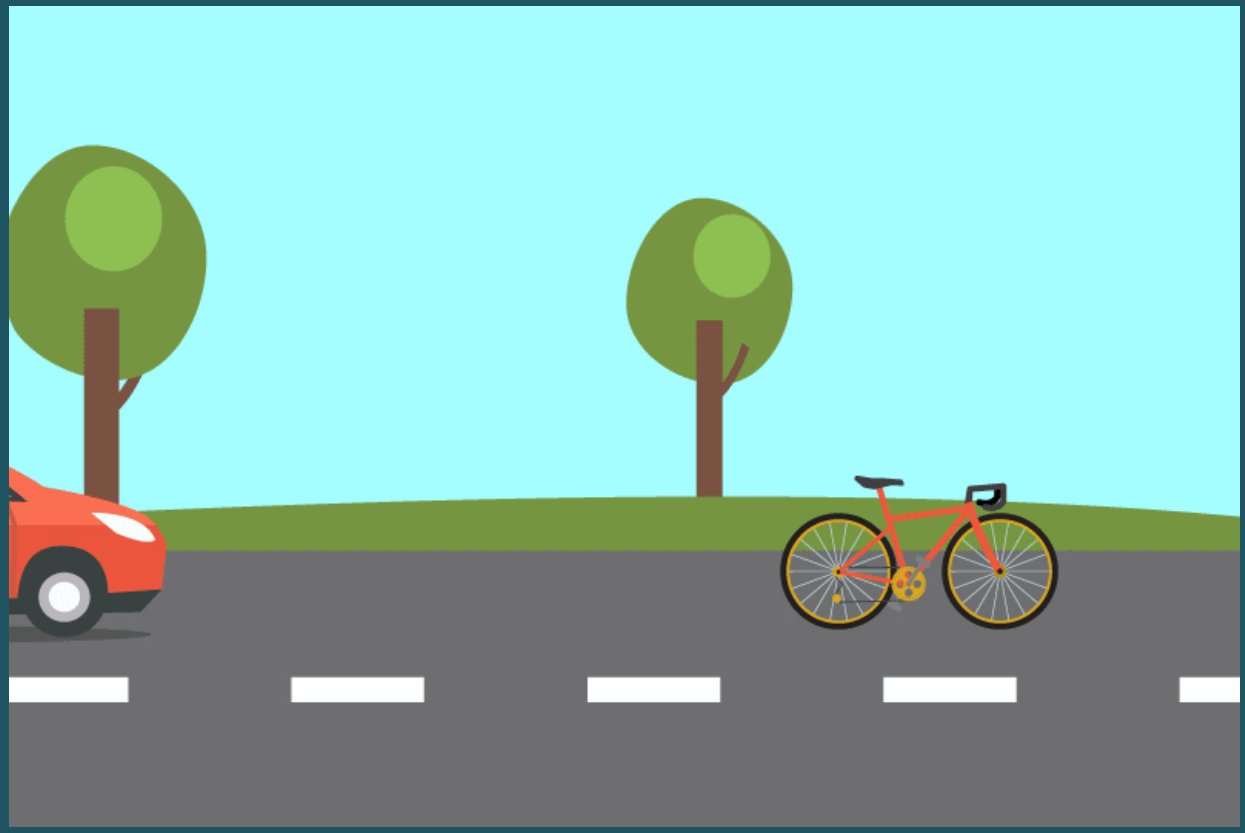
Car pool

Public transportation



Electric car

END CHAPTER 2



Guess! What is it?

Break 2

Ready…Go!

6 Syllables

ขนมจีบซาลาเปา

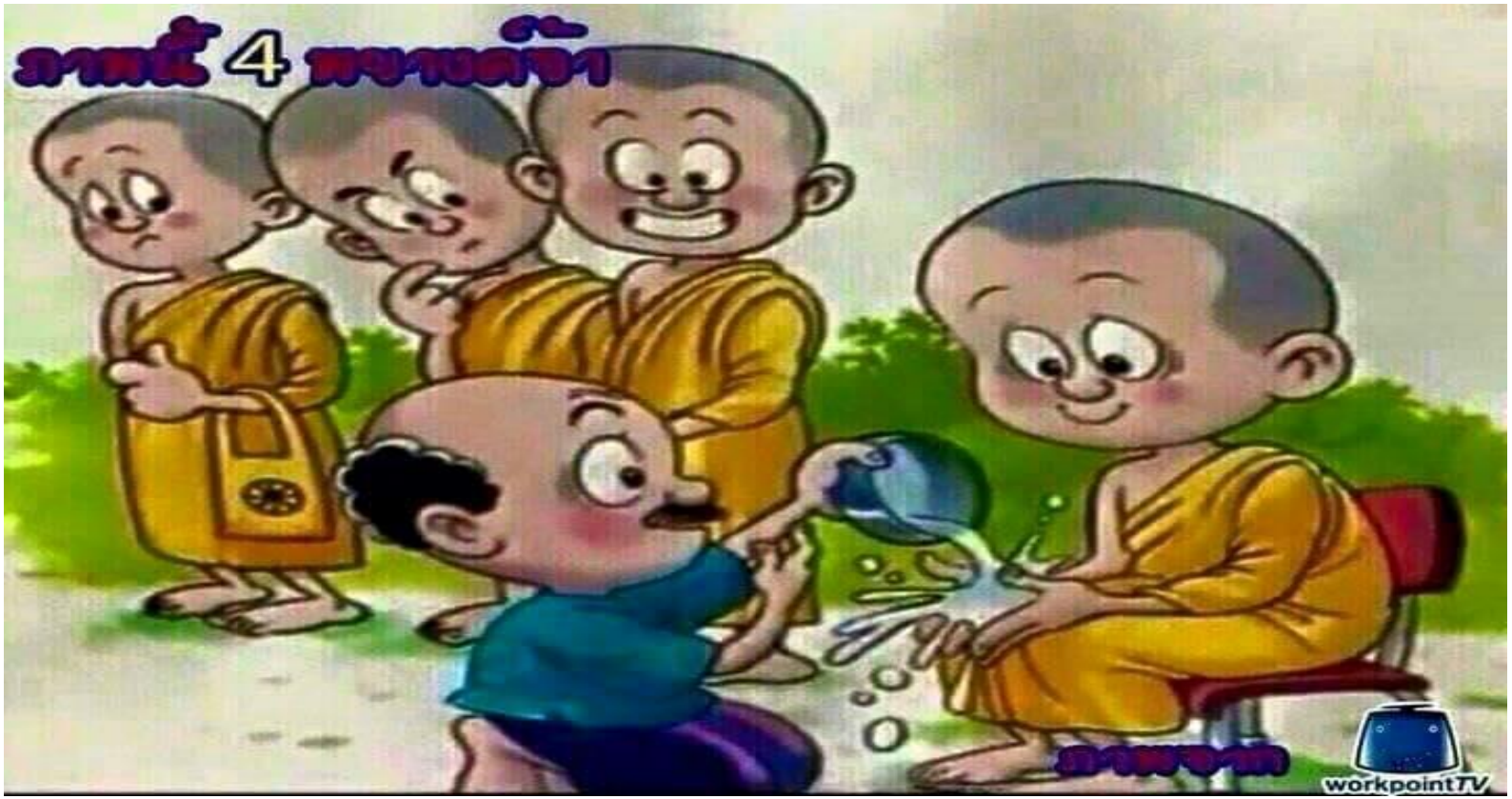
4 Syllables

พายสับปะรด

3 Syllables

ยามาฮ่า

4 Syllables



รถพระที่นั่ง

2 Syllables

ซออู้