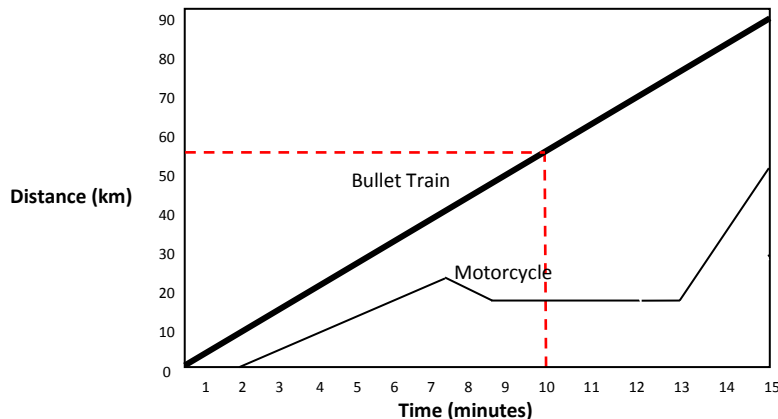


Graphing Pre-Test - ANSWERS

Use the graph below to help in answering the questions below.



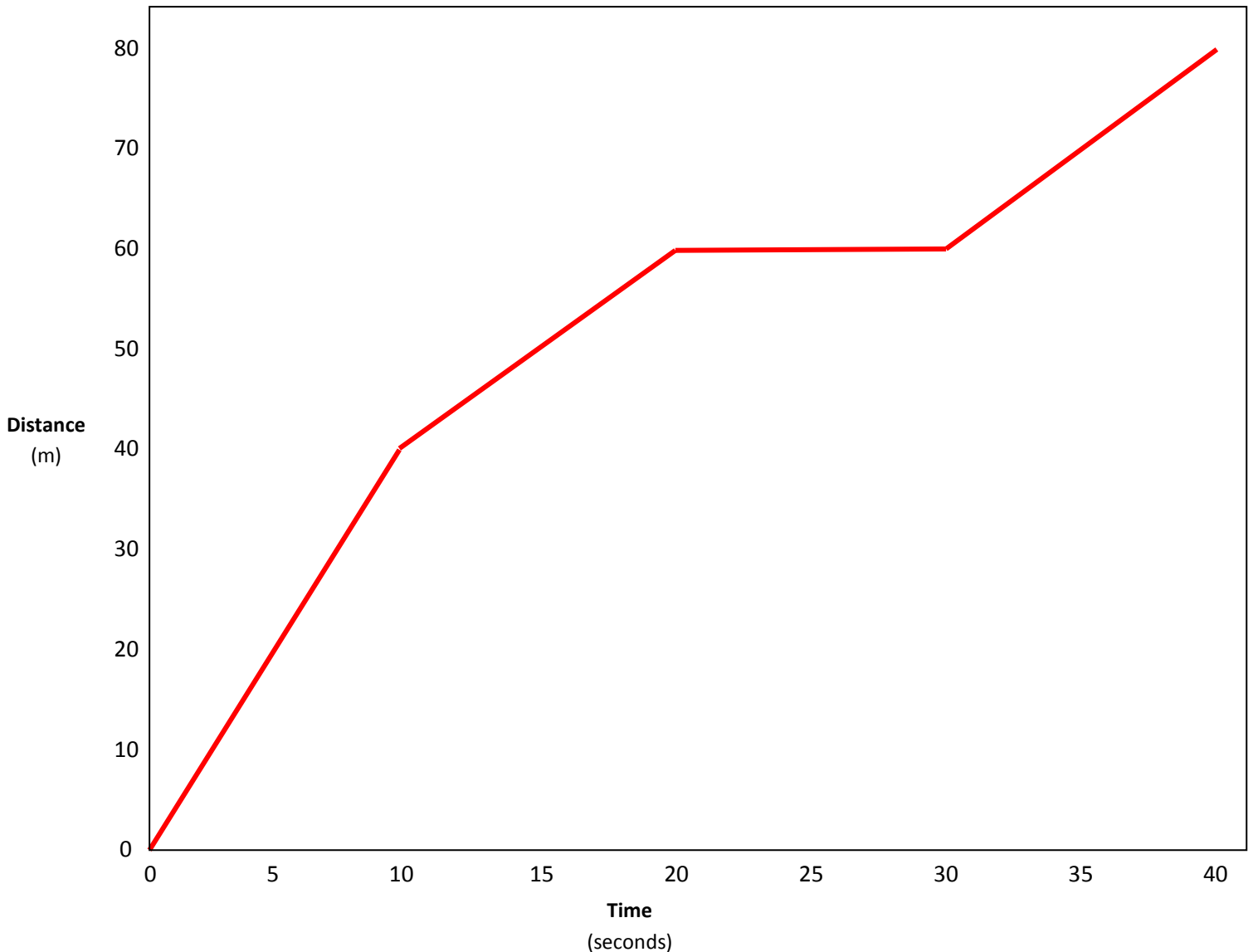
1. What does the **slope** of either line tell you?
SPEED OR AVERAGE SPEED
2. What is the **bullet train's average speed**?
5 km/min to 6 km/min
3. Is the **bullet train's average speed** the same as its **instantaneous speed at 10 minutes**?
YES
4. Is the speed of the **bullet train constant** or **changing**?
CONSTANT (STRAIGHT LINE)
5. Is the speed of the **motorcycle constant** or **changing**?
CHANGING (DIFFERENT SLOPES FOR THE LINES)
6. During what time frame did the motorcycle have the greatest **average speed**?
13 – 15 MINUTES
7. Between **10 and 12 minutes** is the **motorcycle moving**?
NO
8. Who traveled **furthest** in 10 minutes?
BULLET TRAIN
9. Approximately how far did the **bullet train** travel in 15 minutes?
85 km to 90 km
10. What is the **train's average speed** for the entire 15 minutes?
5km/min to 6 km/min
11. What is the **motorcycle's average speed** for the entire 15 minutes?
3.3 km/min
12. Which vehicle (the **bullet train** or the **motorcycle**) had the greatest top speed?
MOTORCYCLE (HAS GREATEST SLOPED LINE)

Graphing Pre-Test (Part II)

The table below lists Jack's ride on his skateboard. Use the data to create a **distance vs. time graph**.
Include the following: labels (x & y axis), a title, the correct units, proper scale used and straight lines.

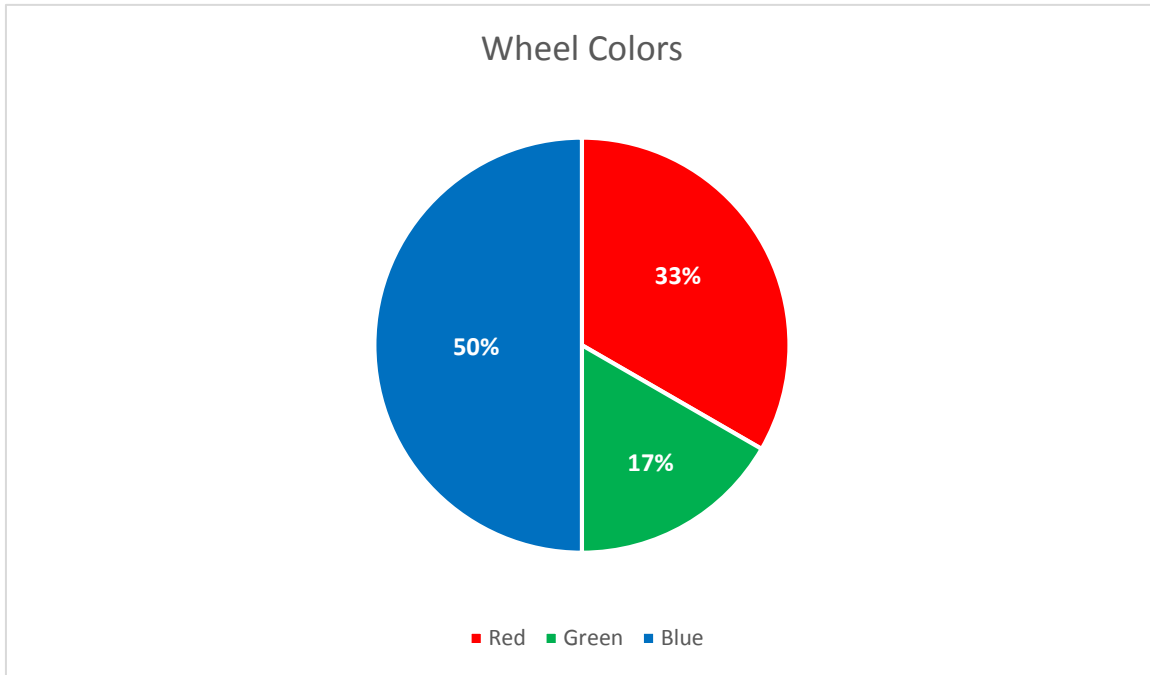
Distance (m)	Time (sec)
0	0
20	5
40	10
50	15
60	20
60	25
60	30
70	35
80	40

Distance vs. time Graph (Speed of Jack's Skateboard Adventure)



Graphing Pre-Test (Part III)

Jack has 3 skateboards. Each board has different color wheels. Graph the **percentage of each color** in the **Pie Graph** below with the following data: (4 red wheels, 2 green wheels, 6 blue wheels)



Jack has 3 skateboards. Each board has different color wheels. Graph the **number of each color** in the **Bar Graph** below with the following data: (4 red wheels, 2 green wheels, 6 blue wheels)

