

Name: _____ Date: _____

It's About Time Worksheet

Students should take turns being the “Receiver” and the “Signal” as follows:

Receiver

When it is your turn to be the receiver, sit facing away from your partner and the signal lines. When ready with the timing device, without turning around or looking back, start timing and yell, “GO!” at the same time. When your partner arrives next to you and says, “Here!” – stop timing and record your data in the table below. The first three times, your partner will tell you where they are starting, and you can learn their pace. The last four times, your partner will randomly choose a line at which they started. You must try to guess how far away they started!

Signal Starting Point	Time To Arrival
10 feet	
20 feet	
30 feet	
? _____	
? _____	
? _____	
? _____	

Signal

When it is your turn to be the signal, start at the 10-foot line and tell your partner you are starting there. When they are ready and yell go, run directly and quickly up to them or past them. Yell “Here!” when you arrive or pass them. Repeat for the 20 and 30-foot lines again letting the receiver know where you are starting. On the fourth and fifth runs, you may start from any of the three lines. Do not tell the receiver where you are starting, and do not give away your position with noise either! When the receiver yells go, run to them at the same pace as you did for the first three times. (Remember the speed of light does not change.)

On the sixth and seventh times, drop your pencil flat on the ground half way between your start line and the receiver. This time when the receiver yells go, run quickly to the receiver as before. But this time, you must stop and pick up the pencil on the way. How did this affect the time and the distance estimate?
