

TURTLE TIME TRIALS



Go to student.desmos.com, get the class password from your teacher, and do the Desmos activity called Turtle Time Trials. Below is information on different turtles.

1. If Turtle A is running faster than Turtle B in a video, what must be true when you compare...
 - a. Their distance values in the table?
 - b. The graphs of their lines?
 - c. The coefficient of x in their equations? (In $y = 3x + 4$, 3 is the coefficient of x .)

2. If Turtle C has a head start on Turtle D in a video, what must be true when you compare...
 - a. Their distance values in the table?
 - b. The graphs of their lines?
 - c. The constant values in their equations? (In $y = 3x + 4$, 4 is the constant value.)

3. You watched a video, connected it to some equations, and observed which went faster/slower, comparing the rates of speed to the equations.

Study these equations where t represents time in seconds and d represents distance in feet.

Turtle E	Turtle F	Turtle G	Turtle H
$d = 2t + 4$	$d = t + 1$	$d = 3t$	$d = 2t$

- a. Which turtle(s) is/are the fastest? Slowest?
- b. Which turtle(s) has/have the largest head start?

4. Study these graphs where t represents time in seconds and d represents distance in feet.

- a. Which turtle(s) is/are the fastest? Slowest?
- b. Which turtle(s) has/have the largest head start?

