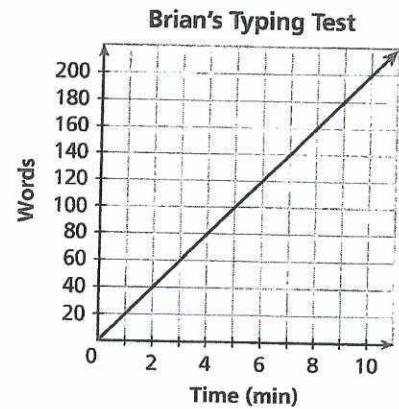


①

**EXPLORE****Comparing a Table and a Graph**

The table and graph show how many words Morgan and Brian typed correctly on a typing test. For both students, the relationship between words typed correctly and time is linear.

Morgan's Typing Test					
Time (min)	2	4	6	8	10
Words	30	60	90	120	150



A Find Morgan's rate of change.

\_\_\_\_\_

B Find Brian's rate of change.

\_\_\_\_\_

C Compare the rate of change of the two graphs.

\_\_\_\_\_

②

**EXPLORE****Comparing a Table and an Equation**

Josh and Maggie buy MP3 files from different music download services. With both services, the monthly charge is a linear function of the number of songs downloaded. The cost at Josh's service is described by  $y = 0.50x + 10$  where  $y$  is the cost in dollars and  $x$  is the number of songs downloaded.

Cost of MP3s at Maggie's Music Service					
Songs, $x$	5	10	15	20	25
Cost (\$), $y$	4.95	9.90	14.85	19.80	24.75

A Find the rate of change of each function.

Josh: \_\_\_\_\_

Maggie: \_\_\_\_\_

B Which function has the greater rate of change? What does that mean in this context?

\_\_\_\_\_