

# Fourth Grade Assessment IV

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<b>Summary</b>	This is a written assessment where children will compare two students. One of the students' speed can be represented linearly while the other's speed is represented by a non-linear graph.
<b>Goals</b>	<ol style="list-style-type: none"><li>1. To evaluate children's learning about graphs.</li><li>2. To evaluate students' comparisons in speed along various time and distance intervals of the race.</li></ol>
<b>Materials</b>	Assessment Handouts
<b>Keywords</b>	Assessment Compare/Contrast Functions Contextualized Situations Interpretation of Graphs Intersections Linear Functions Non-Linear Functions Production of Stories

Name: \_\_\_\_\_ Date: \_\_\_\_\_

The graph on page 3 shows how Sandra and Charlene did in a **800 meters race.**

1. Describe the race between Sandra and Charlene?

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2. What happened in the following time intervals:  
 $0 \leq t \leq 2.5$  [minutes] :

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$2.5 \leq t \leq 5$  [minutes] :

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3. Who ran at a steady pace throughout the race? \_\_\_\_\_

What was that person's speed? \_\_\_\_\_ per \_\_\_\_\_

When were Sandra and Charlene running at the same speed?

At \_\_\_\_\_  $\leq t \leq$  \_\_\_\_\_ [minutes]

4. When did Charlene arrive at the half-way mark in the race?  $t =$  \_\_\_\_\_

5. Was there any time in the race when Charlene and Sandra were at the same place? \_\_\_\_\_

If so, where? \_\_\_\_\_

6. How long did Sandra take to finish the race? \_\_\_\_\_

Name: \_\_\_\_\_ Date: \_\_\_\_\_

7. How long did Charlene take to finish the race? \_\_\_\_\_

8. How much longer did the person who arrived in second place take to finish the race? \_\_\_\_\_

9. Who was ahead at 3 minutes? \_\_\_\_\_

How far ahead? \_\_\_\_\_

Name: \_\_\_\_\_ Date: \_\_\_\_\_

