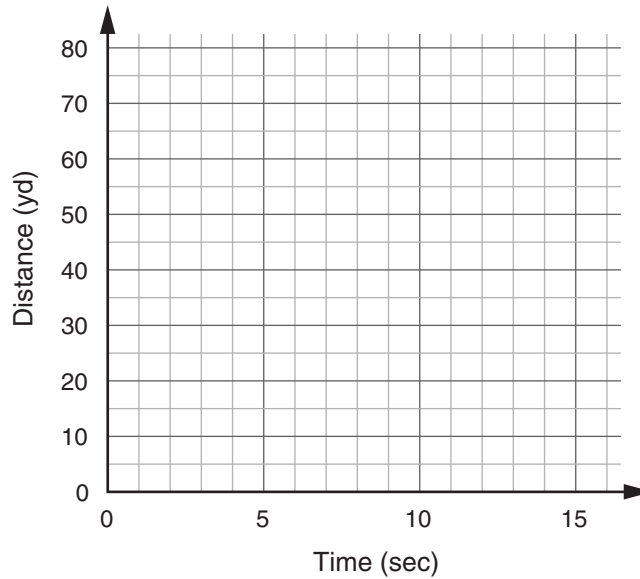## STUDY LINK
10·6 | **Interpreting Tables and Graphs**

Natasha is 12 years old and runs an average of 6 yards per second.
Derek is 8 years old and runs about 5 yards per second. Natasha challenged
Derek to an 80-yard race and told him she would win even if he had
a 10-yard head start.

1. Complete the table showing the distances Natasha and Derek are from the
starting line after 1 second, 2 seconds, 3 seconds, and so on.

Time (sec)	Distance (yd) Natasha	Derek
Start	0	10
1		
2		20
3	18	
4		
9		55
10		
11		
12		
13		

2. Use the table to write rules for the distance covered by Natasha and Derek.

Natasha's Rule: _____

Derek's Rule: _____

_____

3. Graph the results of the race between Natasha and Derek on the grid above. Label each line.

4. a. Who wins the race? _____

b. What is the winning time? _____

c. At what time in the race did Natasha take the lead? _____

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