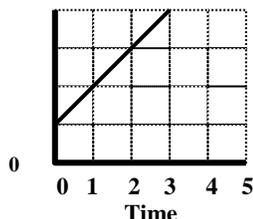


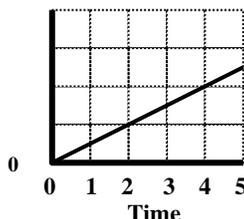
GRADE SEVEN-CONTENT STANDARD #9
ASSESSMENT B
 Permission Granted

FUNCTIONS AND GRAPHS (B)

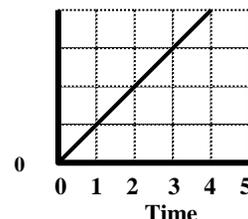
Graph A



Graph B



Graph C

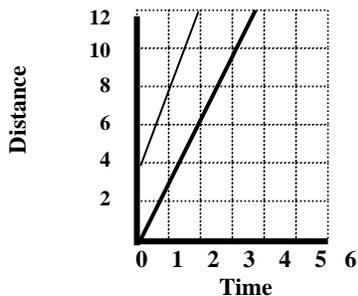


These graphs represent three different bike trips.
 Julian left home and biked at an average speed of 5 miles per hour.

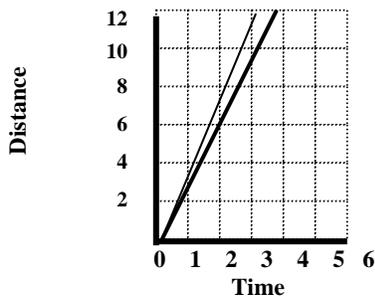
- Which graph, A, B, or C, shows this distance-time relationship? _____
- Write a function rule to relate D , the total distance traveled, to T , the number of hours Julian biked. $D =$ _____
- Use the function rule. How many miles did Julian bike in 5 hours? _____

FUNCTIONS AND GRAPHS (C)

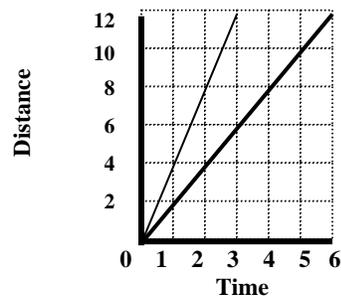
Graph A



Graph B



Graph C



These graphs represent three different jogging periods.
 Allison and Danya are sisters. Allison left home and jogged at a speed of 3 miles per hour. Danya left home at the same time and jogged at a speed of 4 miles per hour.

- Which graph, A, B, or C, represents Allison and Danya's trips? _____
- Write a function rule to relate T , the number of hours Allison jogged, to D , the distance she traveled. $D =$ _____
- Write a function rule to relate T , the number of hours Danya jogged, to D , the distance she traveled. $D =$ _____

Name.....

Name.....

FUNCTIONS AND GRAPHS (B)

Solutions

1. Graph C shows an average speed of 5 mph.
2. $D = 5T$
3. If $T = 5$, then $D = 5 \times 5$, or 25 miles.

FUNCTIONS AND GRAPHS (C)

Solutions

1. Graph B – It shows that Allison jogged 3 miles per hour, and Danya jogged 4 miles per hour. Since both girls left at the same time from the same place, both lines have to begin at the origin, (0, 0). Only Graph B shows that Hour 1, one jogger is at 3 miles and the other jogger is at 4 miles.
2. $D = 3T$ for Allison
3. $D = 4T$ for Danya