

# Why Did the Skeleton Visit a Butcher Shop?

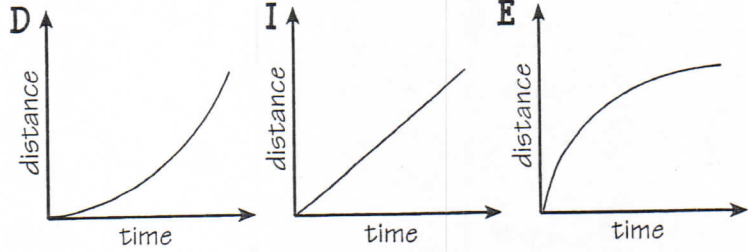
Key

Choose the best graph for the situation. Write the letter of your choice in each box with the exercise number.

**Suppose you are riding a bike.**  
Let  $x$  = time;  $y$  = distance traveled.

Which graph shows:

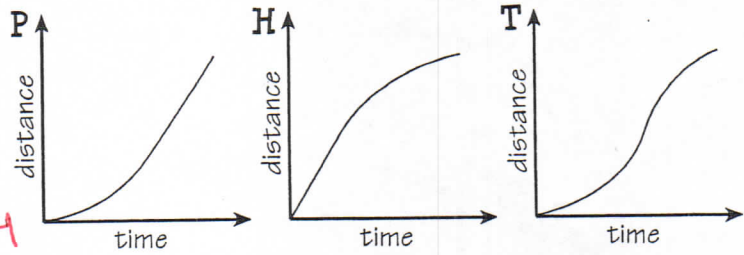
1. Speeding up (acceleration)? **D**
2. Slowing down (deceleration)? **E**
3. Constant speed? **I**



**Suppose you are walking to school.**  
Let  $x$  = time;  $y$  = distance traveled.

Which graph shows:

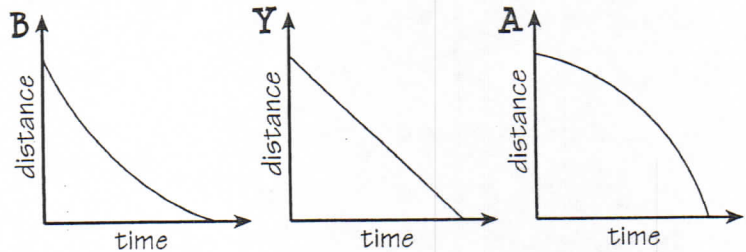
4. Speeding up, then slowing down? **T**
5. Speeding up, then constant speed? **P**
6. Constant speed, then slowing down? **H**



**Suppose you are running home.**  
Let  $x$  = time;  $y$  = distance from home.

Which graph shows:

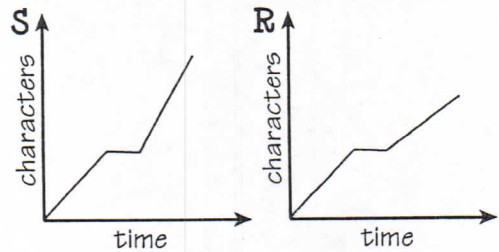
7. Constant speed? **Y**
8. Speeding up as you get closer? **A**
9. Slowing down as you get closer? **B**



**Suppose you are writing a story on a computer.**  
Let  $x$  = time;  $y$  = number of characters typed.

Which graph shows:

10. Constant speed, then stop, then a faster constant speed? **S**
11. Constant speed, then stop, then a slower constant speed? **R**



4 6 2 7 6 8 1 10 5 8 11 2 11 3 9 10  
T H E Y H A D S P A R E R I B S

## The Hurdles Race

This sketch graph shows what happened when three athletes, Flash, Krash, and Dash, competed in a 100-meter hurdles race.

- a. How do you know that all three athletes were accelerating at the beginning of the race?
- b. Which athlete slowed down near the end of the race? How do you know? **Dash**
- c. Which athlete maintained a constant speed during the last half of the race? How do you know? **Flash**
- d. Why might part of the graph for Krash be horizontal?
- e. Who won the race? **Flash** Just for Fun: Try calling the race.

