Acceleration
Name: $\qquad$
Date: $\qquad$
Class: $\qquad$

## 6. Which of these statements is true?

A. Acceleration in the direction of motion slows you down
B. Acceleration in the direction of motion speeds you up
C. Acceleration against the direction of motion has no effect on your speed
D. Acceleration against the direction of motion speeds you up
7. If you're sitting still in a chair reading this, what is your acceleration?
A. $0 \mathrm{~m} / \mathrm{s} / \mathrm{s}$
B. $1 \mathrm{~m} / \mathrm{s} / \mathrm{s}$
C. $2 \mathrm{~m} / \mathrm{s} / \mathrm{s}$
D. $3 \mathrm{~m} / \mathrm{s} / \mathrm{s}$
8. When would acceleration increase most?
A. Rolling along a flat plane
B. Rolling down a steep hill
C. Braking to a stop
D. Rolling up a gently sloping hill
9.

How does braking stop a bike?
A. It makes the wheels turn backwards a few times B. It pumps up the tires slightly so they cannot roll forward
C. It causes a quick negative acceleration against the bike's forward motion
D. It causes a quick positive acceleration against the bike's backward motion

## 10. You're in a moving car. Which of the following changes would always mean there's been some acceleration?

A. A change in temperature
B. A change in time
C. A change in location
D. A change in speed

