

- ____ 16. If velocity is measured in kilometers per hour and time is measured in hours, the unit of acceleration is
- hours.
 - kilometers per hour.
 - kilometers per hour per hour.
 - kilometers.
- ____ 17. Which of these is an example of deceleration?
- a bird taking off for flight
 - a baseball released by a pitcher
 - a car approaching a red light
 - an airplane following a straight flight path
- ____ 18. Speed equals distance divided by
- time.
 - velocity.
 - size.
 - motion.
- ____ 19. The moon accelerates because it is
- in a vacuum in space.
 - continuously changing direction.
 - a very large sphere.
 - constantly increasing its speed of orbit.
- ____ 20. When you know both the **speed and the direction** of an object's motion, you know the
- average speed** of the object.
 - acceleration** of the object.
 - distance** the object has traveled.
 - velocity** of the object.
- ____ 21. The basic SI unit of length is the
- meter.
 - foot.
 - inch.
 - mile.
- ____ 22. If the speed of an object does NOT change, the object is traveling at a(n)
- constant speed.
 - average speed.
 - increasing speed.
 - decreasing speed.
- ____ 23. When an object's distance from another object is changing,
- it is in motion.
 - it is speeding.
 - it has a high velocity.
 - it is accelerating.
- ____ 24. A place or object used for comparison to determine if something is in motion is called
- a position.
 - a reference point.
 - a constant.
 - velocity.