

- ____ 21. 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
- ____ 22. The moon accelerates because it is
- in a vacuum in space.
 - continuously changing direction.
 - a very large sphere.
 - constantly increasing its speed of orbit.
- ____ 23. 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.
- ____ 24. To **determine the acceleration** rate of an object, you must **calculate the change in velocity** (ending velocity - beginning velocity) and divided by
- speed.
 - time.
 - motion.
 - deceleration.

Modified True/False

Use the drop down to indicate whether the sentence or statement is true or false. If false, Drag and Drop to make the false statement true.

WORD BANK: (Answers with numbers are not in the word bank)

acceleration speed not moving planet distance constant

- ____ 25. Motion is measured relative to a reference point. _____
- ____ 26. A person standing on a moving escalator is moving relative to another person standing on the escalator. _____
- ____ 27. A cyclist travels 20 km in half an hour. Her average speed is 10 km/h.
_____ **km/hr**
- ____ 28. If one toy car is traveling at 10 cm/s and another toy car is moving at 10 cm/s in the opposite direction, both cars have the same velocity. _____
- ____ 29. A child riding on a merry-go-round is accelerating because his direction is changing.

- ____ 30. The SI unit of velocity is the meter per second per second. _____