1. Reference point-point against which is measured

Vector quantity-physical measurement that contains directional info
Scalar quantity-physical measurement that does not contain directional info
Acceleration-time rate of change of an object's velocity
Free fall- motion of an object when its falling solely under influence of gravity

2. It isn’t moving relative to reference point
3. Glass of water is moving to many reference points
4. Child is in motion to the 2 girls

B 1st girl is in motion to baby
C2nd girl isn't in motion to 1st girl
5.20 m/h
6.6000m
7.scaler distance
B vector acceleration
C scaler speed
D scaler none
E vector velocity
F scaler speed
8. 12 mph towards each other
9.acceleration is 0
10. 6 m/s2 east
11. 150 m/h2 north
12. Air resistance is a second influence/ all object experience air resistance
13. It can be ignored by heavy things
14. Will both hit first
15. 82.4 m
16. 784 ft
17. Opposite direction