

## FIRST TERMINAL EVALUATION – 2016

### PHYSICS ANSWER KEY – STANDARD VIII

1. N
2.  $m^2$
3. a) X – Water, Y – Kerosene  
b) As the density of Kerosene is low it will float on top of the water and spread the flames.
4. c. Displacement is lesser than or equal to distance.
5. a. Uniform motion.  
b. Velocity = Displacement / Time =  $80 \text{ m} / 8 \text{ s} = 10 \text{ m/s}$
6. a. Non contact force  
b. Static electric force
7. a. zero  
b. acceleration,  $a = (v-u) / t = (36 - 0) / 6 = 6 \text{ m/s}^2$
8. a. 300000 km  
b. The distance travelled by light in one year.  
c. Astronomical Unit (AU)
9. a. First Vehicle KL 8J 4554  
[ speed of first vehicle =  $1 \text{ km} / (1/60) \text{ h} = 60 \text{ km/h}$   
speed of second vehicle =  $1 \text{ km} / (3/60) \text{ h} = 20 \text{ km/h}$  ]  
b. Speed Thrills But Kills... / Better Late Than Never.....

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