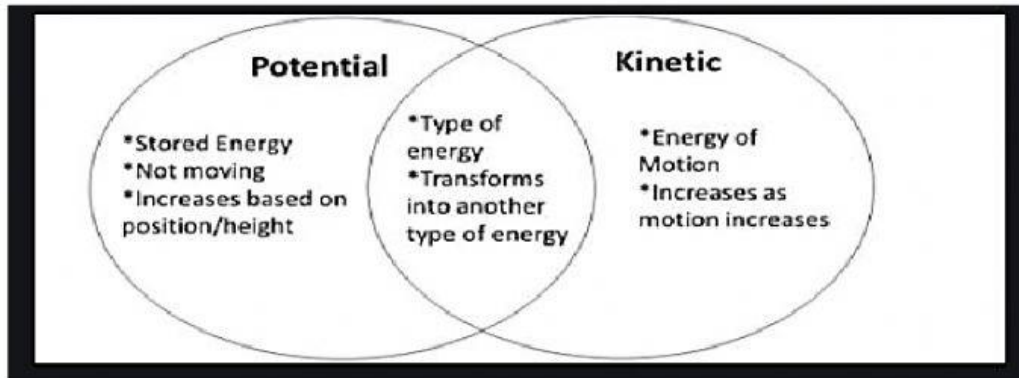


Force and Motion Test Review

Last Name: _____ First Name: _____ Period: _____ Dater: _____



Potential Energy and kinetic Energy

1. Write 3 facts about Potential Energy

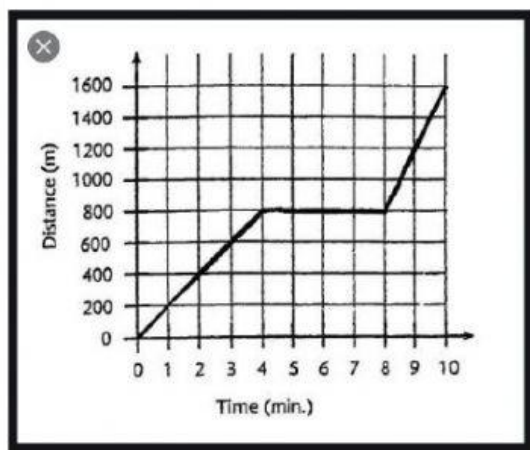
- _____
- _____
- _____

2. Write 2 facts about Kinetic Energy

- _____
- _____

3. You drove a distance of 20 miles in 4 hours in your car. What was the average speed of your car?

Speed = distance / time	S = <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td></tr><tr><td> </td></tr></table> = <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td></tr><tr><td> </td></tr></table> = <table border="1" style="display: inline-table; vertical-align: middle; width: 150px; height: 20px;"></table>				



Use the graph

4. Find the **distance traveled in the time **4 minutes****

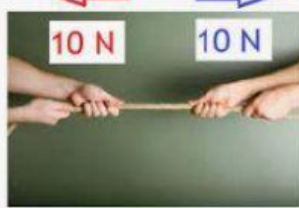
5. Find the **distance traveled in the time **8 minutes****

6. Why the **distance at 4 minutes is the same as **8 minutes**?**

7. What is the **time at **1600 meters**?**

Write **balanced or **unbalanced****

8. _____



9. _____



30 N Friction

50 N Thrust



10. _____

Write **balanced or **unbalanced****

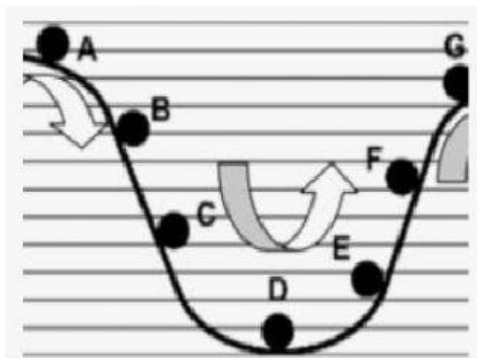
11. A book resting on a table

12. Kicking a football

13. A car slowing down

14. A person standing still

15. An aero plane taking off



Use the left diagram

16. At which point there is the highest Potential Energy (PE)

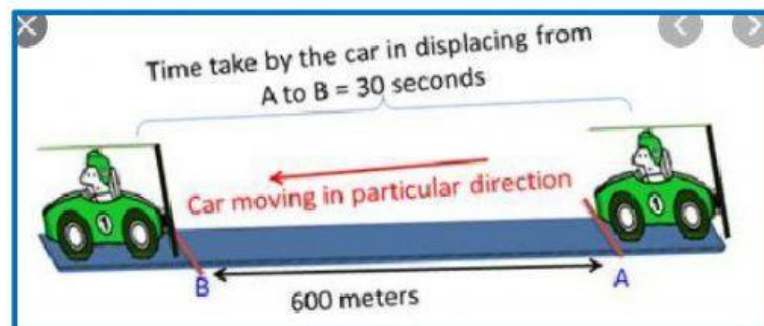
(hint: the higher an object is at, the more PE)

Letter _____

17. At which point there is the highest Kinetic energy

(hint: the faster and object travels the more KE)

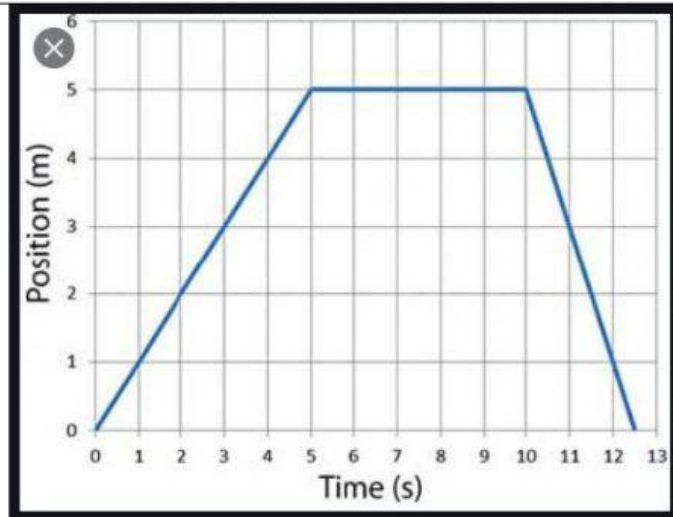
Letter _____



18. Calculate the speed

Speed =
distance / time

$$S = \frac{\quad}{\quad} = \frac{\quad}{\quad} = \quad$$



19. Between which minutes (time) the object was **not moving** (**resting/flat**)

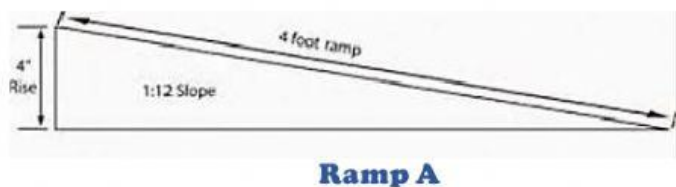
Between _____seconds and _____seconds

20. **Ramps or inclined** planes make the job easier.

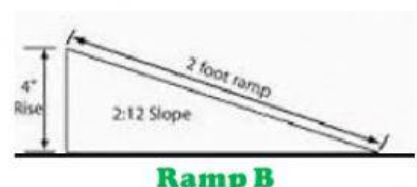


To move from one point to another point

Which inclined plane would the worker use to move the boxes inside the truck?



Ramp A



Ramp B

Answer: Ramp_____

21. **Last question:** Are you passing and doing all your work? _____