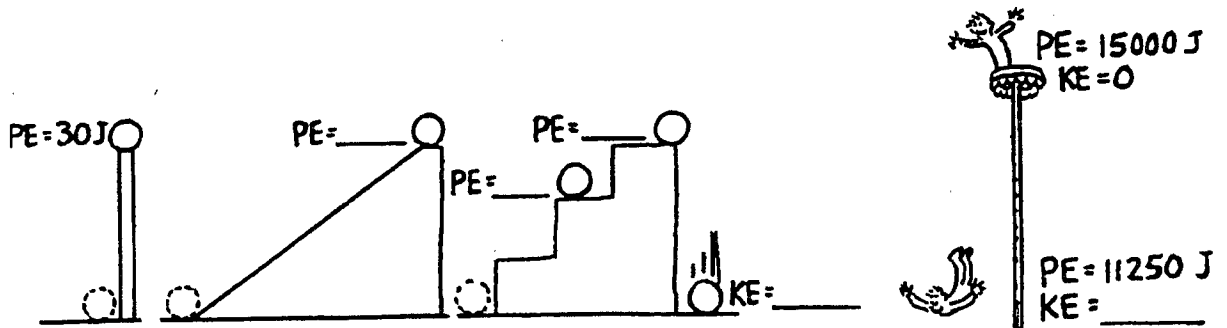


**Concept-Development
Practice Page**

8-2

Conservation of Energy

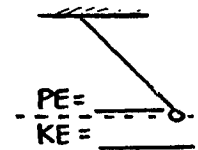
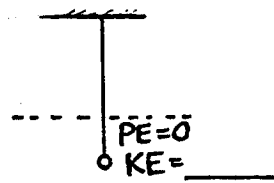
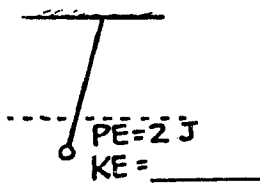
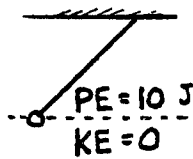
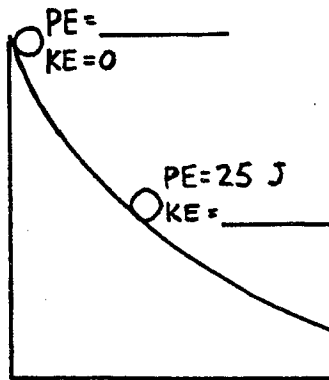
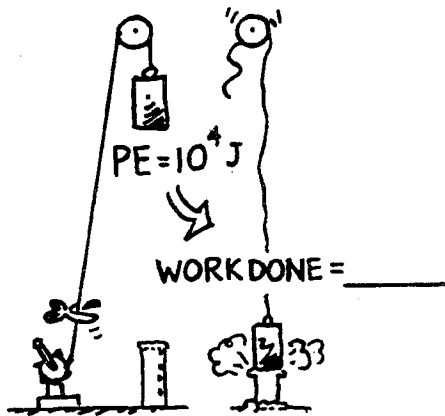
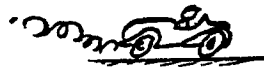
1. Fill in the blanks for the six systems shown.



$v = 30 \text{ km/h}$
 $KE = 10^6 \text{ J}$

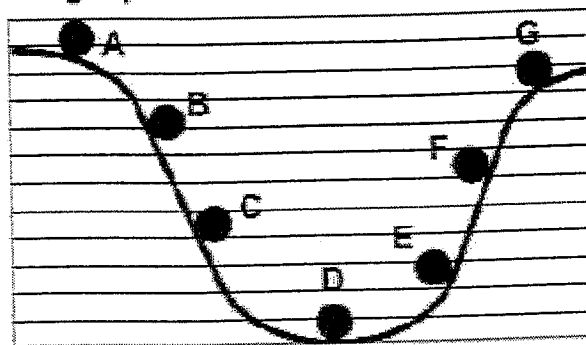
$v = 60 \text{ km/h}$
 $KE = \underline{\hspace{2cm}}$

$v = 90 \text{ km/h}$
 $KE = \underline{\hspace{2cm}}$



Conceptual PHYSICS

Part 1: This graph shows a ball rolling from A to G.



1. Which letter shows the ball when it has the maximum kinetic NRG? _____
2. Which letter shows the ball when it has the maximum potential NRG? _____
3. Which letter shows the ball when it has the least potential NRG? _____
4. Which letter shows the ball when it has the least kinetic NRG? _____
5. Which letter shows the ball when it has just a little more kinetic NRG than A? _____
6. Which letter shows the ball when it has just a little more potential NRG than letter C? _____
7. Which letter shows the ball when it has just a little less potential energy than letter F? _____
8. Which letter shows the ball when it has just a little more kinetic energy than letter G? _____
9. Which letter shows the ball when it has just a little less kinetic energy than letter D? _____
10. Which letter shows the ball when it has just a little less potential energy than letter C? _____
11. Which sequence correctly shows an increase in potential energy?

A. E, F, B, G	B. B, F, E, C
C. D, E, B, F	D. A, G, F, C
12. Which sequence correctly shows an increase in kinetic energy?

A. E, F, B, G	B. B, F, E, C
C. D, E, B, F	D. A, G, F, C
13. Which sequence correctly shows a decrease in kinetic energy?

A. E, F, B, G	B. B, F, E, C
C. D, E, B, F	D. A, G, F, C
14. Which sequence correctly shows a decrease in potential energy?

A. E, F, B, G	B. B, F, E, C
C. D, E, B, F	D. A, G, F, C