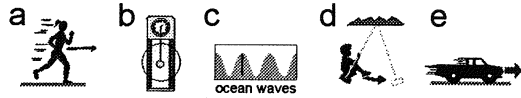


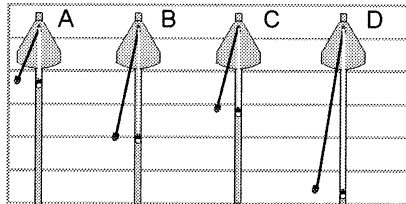
# Questions

1. Which pictures show periodic motion?

- a. A girl running a 100 m race
- b. The swinging pendulum of a clock
- c. An ocean wave rising and falling
- d. A boy riding a swing
- e. a truck moving down the street.



2. Match the four measured periods with the most likely pendulum.



Group	Period	Pendulum
1	1.0 sec	
2	1.2 sec	
3	1.4 sec	
4	1.7 sec	

3. There are several periodic motions associated with Earth. One is that Earth rotates once every 24 hours. List at least two other examples, and give the period of each.

---



---



---

4. Which of the four experiments has the longest period? Why?

---



---



---



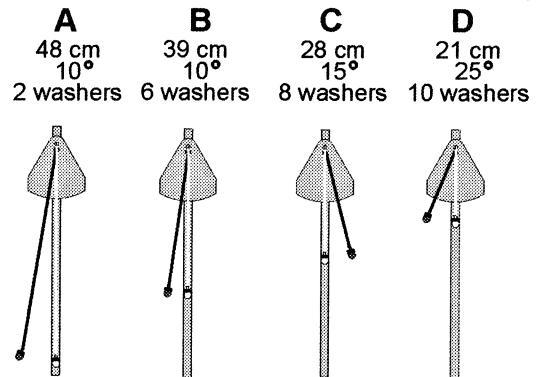
---



---



---



5. CHALLENGE! A pendulum swings past its pole 20 times in 18 seconds. What is the period of the pendulum?

---



---



---



---



---

