The picture represents a strobe photograph of a single, falling ball. The strobe is flashing once every 0.1 sec.
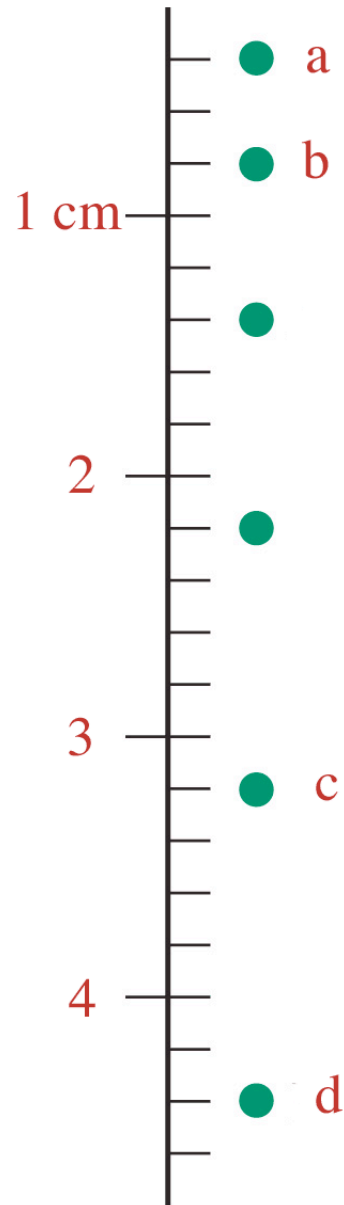
1. How far has the ball moved between the first two flashes (a and b)?

2. What was its average speed between a and b?

3. What was the ball's average speed between c and d?

4. How much time has elapsed between a and c?

5. So, what was the **average acceleration** of the ball between a-b and c-d?

6. What was the average speed of the ball between a and d?

1 cm

2

3

4

a

b

c

d