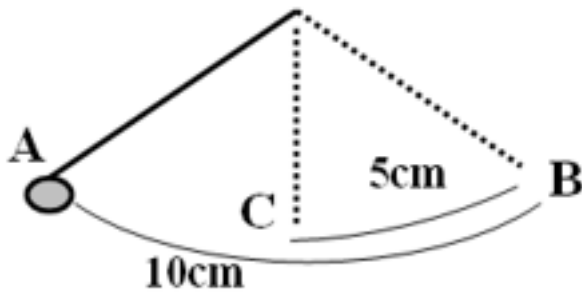


Question 17

Questions 16 and 17 refer to the following information

A pendulum is swinging back and forth. With each successive swing, the pendulum travels half the distance of the previous swing.

For example, in its first two swings, a pendulum starting at **A** would first swing 10cm to **B** and then 5 cm to **C**.



1st: $2.4\text{m} = 240\text{cm}$

2:	120
3:	60
4:	30
5:	15

$$n^{\text{th}} : 7.5 \text{ cm}$$

If a pendulum's first swing was 2.4m, how many times has it swung already if its next swing is 7.5 cm?

- ☐ 3
- ☐ 4
- ☐ 5
- ☐ 6
- ☐ 7



Correct answer:

5



Hint:

240cm → 120cm → 60cm → 30cm → 15cm → 7.5cm

The sixth swing is 7.5cm, so it has swung 5 times.