

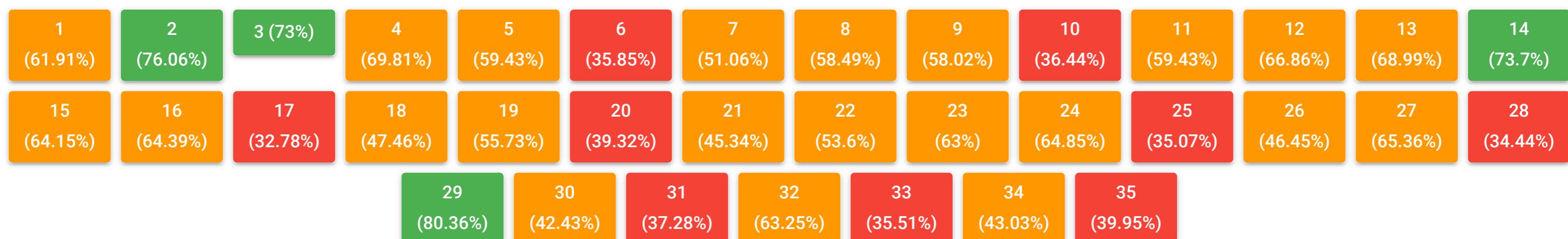


Detail

2025 Y5 T4W7 Mathematical Reasoning Test



Review

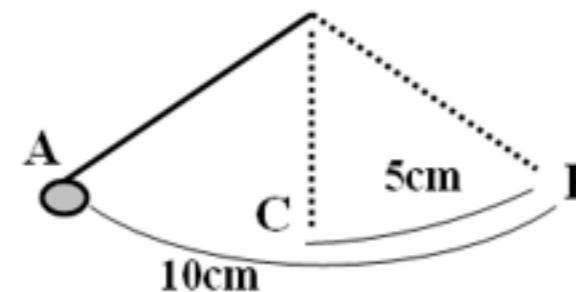


## Question 16

**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**.



Six swings

- 1: 40
- 2: 20
- 3: 10
- 4: 5 +
- 5: 2.5
- 6: 1.25

78.75

If its first swing is 40cm, how far has the pendulum travelled in its first six swings?

- 120 cm
- 82.5 cm
- 78.75 cm
- 77.5 cm
- 19.70 cm

**Correct answer:**

78.75 cm

**Hint:** $40 + 20 + 10 + 5 + 2.5 + 1.25 = 78.75\text{cm}$ 

Session



Registrations



Report

