

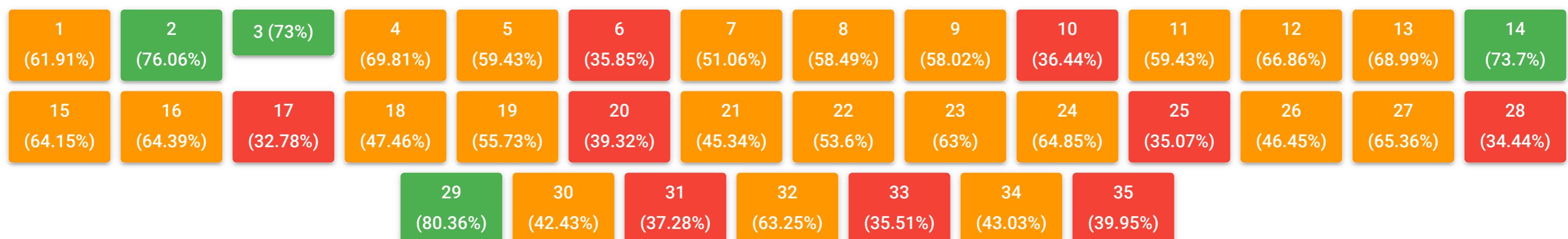


Detail

2025 Y5 T4W7 Mathematical Reasoning Test



Review



Question 31

Nadia is competing in a gymnastics competition. She achieves scores of 8, 7, 6.5 and 6 out of 10 in her first four routines. If she has 4 routines remaining, will Nadia be able to achieve an average score of 9 at the end of her eight routines?

$$\text{Desired total} = 9 \times 8 = 72$$

$$\text{Current total} = 8 + 7 + 6.5 + 6 = 27.5$$

She needs $72 - 27.5 = 45.5$ points

However her max score after 4 routines is
 $40 < 45.5$, ∴ not possible

- Yes, Nadia will easily achieve an average score of 9.
- Possibly, but only if Nadia achieves a perfect score in all of her remaining routines.
- No, Nadia will not be able to receive an average score of 9.
- It is still possible as she would only need 37.5 out of a possible 40 points remaining.
- There is not enough information to tell.


Correct answer:

No, Nadia will not be able to receive an average score of 9.


Hint:

 Total score required = $9 \times 8 = 72$
 $72 - (8 + 7 + 6.5 + 6) = 44.5$ points more

 Maximum for 4 routines = $4 \times 10 = 40$ points

This is impossible to achieve in 4 routines.

Session



Registrations



Report

