

# Computational and Algorithmic Thinking

CAT Sample Problems  
Junior

## Part A: Question 1

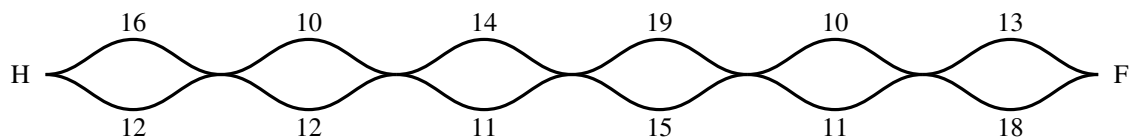
This question should be answered by a single choice from A to E.  
This question is worth 3 marks.

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### 3. Landslide

Ketura regularly travels from her home (H) to visit a friend (F).

The map below shows the length of each section of track. She always takes the shortest route.



One day there was a landslide on one of the sections she normally took, and it was closed. She still took the shortest available route, but the distance she had to travel increased to 76.

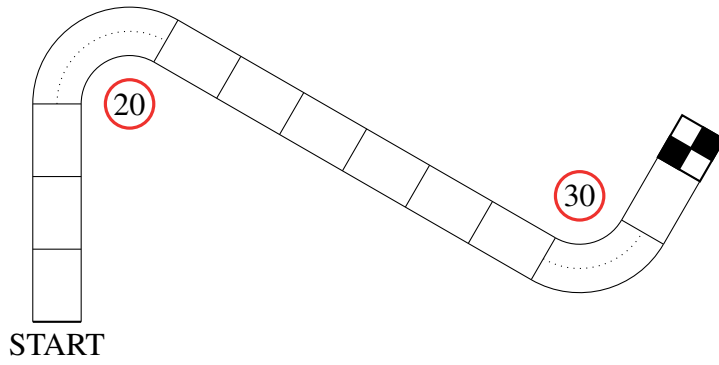
How long was the section that was closed due to the landslide?

- (A) 10                      (B) 11                      (C) 12                      (D) 13                      (E) 15

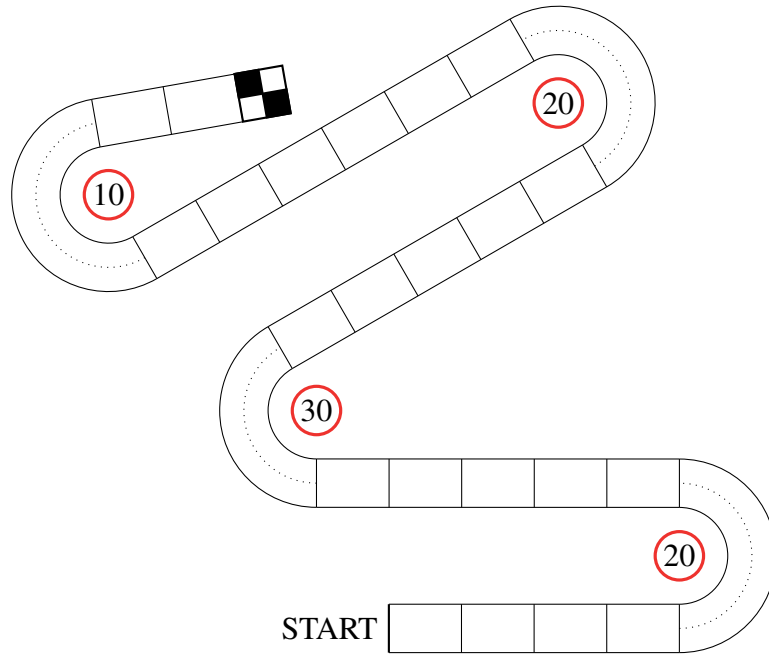


On each of the following courses, what is the total cost his team incurs when Alain races once?

A.



B.



C.

